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**FIGURE 2601**

MFYAHFVLSKRGPLAKIWLAHWDKKLTKAHVFECNLESSVESIISPVKMALRTSGHLLLGVVRIYHRKAKYLL  
ADCNEAFIKIKMAFRPGVVDLPEENREAYNAITLPEEFHDFDQPLPDLDIDVAQQFSLNQS RVEEITMREEVG  
NISILQENDFGDFGMDREIMREGSAFEDDDMLVSTTTSNLLESEQSTSNLNEKINHLEYEDQYKDDNFGE GND  
GGILDDKLISNNDGGIFDDPPALSEAGVMLPEQPAHDDMDEDDNVSMGGPDSVDPVPEPMTMTDQTTLVNE  
EEAFALEPIDITVKETKAKRKRKLIVDSVKELDSKTIRAQLSDYSDIVTTLDLAPPTKKLMMWKETGGVEKLFSL  
PAQPLWNNRLLKLFTRCLTPLVPEDLRKRRKGGEADNLDEFLEFENPEVPREDQQQHQQRDVIDEPIIEEPSR  
LQESVMEASRTNIDESAMPPPPQGVKRKAGQIDPEPVMPPQQVEQMEIPPVELPPEEPPNICQLIPELELLPEK  
EKEKEKEKEDDEEEDEDASGGDQDQEERRWNKRTQQMLHGLQALAKTGAESISLLELCRNTNRKQAAKFYSF  
LVLKKQQAIELTQEEPYSIIATPGPRFHII

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FIGURE 2602

GGCGGCGGCGGCGAGAGCCCGGGAGGCGGAGGCGGCGGCGGCGGCGGCGGAGAGCGAGCAGCGGCGAGCGG  
CAGCATGTCGGCCGCGGAGCGTCAGTCCCGCCGCCCCGAACCCGCGGTGTCCTTCCCGCCGCCCCGGGTAC  
CCTGCCCGCCGCCCCGACATCCTGEGGACCTACTCGGGCGCCTTCGTCTGCCTGGAGATTCTGTTGGGGGTCT  
TGTCTGGATTTTGGTTGCCCTCCTCCAATGTTCTCTACCTCTACTACAAGGATGGGTCATGTTTGTGTCCTGAC  
AGCGTTTTTCTTTTCGCTCCTCTTTCTGGGCATGTTCTCTCTGGCATGTTGGCTCAAATTGATGCTAACTGAA  
CTTCTGGATTTTGCCTACCATTTTACAGTATTTGTCTCTATTTTGGAGCCTTTTATTGGAAGCAGCAGCCAC  
ATCCCTGCATGATTTGCATTGCAATACAACCATAACCGGCGAGCCACTCCTGAGTGATAACCACTATAACATAAA  
CGTAGCAGCCTCAATTTTGCCTTTATGACGACAGCTTGTTATGGTTGCAGTTTGGGTCTGGCTTTACGAAGATG  
GCGACCGTAACTCTTAGAACTGGCAGTCGTATGTTAGTTTCACTTGCTACTTTATATGCTGATCAATTT  
GGATACCATTTTGTCCAGATGCAAAACATTCCAAAAGTAATGTGTTTAGTAGAGAGAGACTCTAAGCTCAAGTT  
CTGGTTATTTTCATGGATGGAATGTTAATTTTATTATGATATTAAAGAAATGGCCTTTTATTTACATCTCTCCC  
CTTTTCCCTTTCCCTTTTATTTTCTCTCTTTCTTTCTGAAAGTTTCTTTTATGTCCATAAAATACAAATAT  
ATTGTTCAATAAAAAATTAGTATCCCTTTTGTGTTGCTGAGTCACCTGAACCTTAATTTAATTGGTAATTAC  
AGCCCTTAAAAAAACACATTTCAAATAGGCTTCCCACTAACTCTATATTTAGTGTAACCAAGGAATTGGCAC  
ACTTTTTTTAGAATGGGCCAGATGGTAAATATTTATGCTTCACGGTCCATACAGTCTCTGTCACTACTATTAGT  
TCTGCTAGTATAGCGTGAAAGCAGCTATACACAATACAGAAATGAATGAGTGTGGTTATGTTCTAATAAACTTA  
TTTATAAAACAAGGGGAGGCTGGGTTTAGCCTGTGGGCCATAGTTTGTCAACCACTGGTGTAAAACCTTAGTTA  
TATATGATCTGCATTTTCTTGAAGTATCATTGAAAACCTATAAACCTAACAGAAAAGCCACATAATATTTAGTG  
TCATTATGCAATAATCACATTGCCTTTGTGTTAATAGTCAAATACTTACCTTTGGAGAATACTTACCTTTGGAGG  
AATGTATAAAATTTCTCAGGCAGAGTCCTGGATATAGGAAAAGTAATTTATGAAGTAACTTCAGTTGCTTAAT  
CAAATAATGATAGTCTAACAACCTGAGCAAGATCCTCATCTGAGAGTGCTTAAAATGGGATCCCCAGAGACCATT  
AACCATACTGGAACCTGGTATCTAGCTACTGATGCTTACTTTGAGTTTATTTATGCTTCAGAATACAGTTGTTT  
GCCCTGTGCATGAATATACCCATATTTGTGTGTGGATATGTGAAGCTTTTCCAAATAGAGCTCTCAGAAGAATTA  
AGTTTTTACTTCTAATTATTTTGCATTACTTTGAGTTAAATTTGAATAGAGTATTAAATATAAAGTTGTAGATT  
TTATGTGTTTTTGTATTAGCCAGACATCTGTAATGTTTTTGCAGTGGTGACAGACAAAATCTGTTTTAAATCA  
TATCCAGCACAAAACCTATTTCTGGCTGAATAGCACAGAAAAGTATTTTAACTACCTGTAGAGATCCTCGTCAT  
GGAAAGGTGCCAACTGTTTTGAATGGAAGGACAAGTAAGAGTGAGGCCACAGTTCCCACCACACGAGGGCTTTT  
GTATTGTTCTACTTTTTTCAGCCCTTTACTTTCTGGCTGAAGCATCCCCTTGGAGTGCCATGTATAAGTTGGGCTA  
TTAGAGTTCATGGAACATAGAACAACCATGAATGAGTGGCATGATCCGTGCTTAATGATCAAGTGTTACTTATCT  
AATAATCCTCTAGAAAGAACCCTGTTAGATCTTGGTTTGTGATAAAAATATAAAGACAGAAGACATGAGGAAAAA  
CAAAAGGTTTGAGGAAATCAGGCATATGACTTTTATACCTTAACATCAGATCTTTTCTATAATATCCTACTACTTTG  
GTTTTCTAGCTCCATACCACACACCTAAACCTGTATTATGAATTACATATTACAAAGTCATAAATGTGCCATAT  
GGATATACAGTACATTCTAGTTGGAATCGTTTACTCTGCTAGAATTTAGGTGTGAGATTTTTTGTTCCTCAGGTA  
TAGCAGGCTTATGTTTGGTGGCATTAAATTTGGTTTCTTTAAAAATGCTTTGGTGGCACTTTTGTAAACAGATTGCT  
TCTAGATTGTTACAAACCAAGCCTAAGACACATCTGTGAATACTTAGATTGTAGCTTAATCACATTCTAGACTT  
GTGAGTTGAATGACAAAGCAGTTGAACAAAAATTATGGCATTAAAGAATTTAACATGTCTTAGCTGTAAAAATGA  
GAAAGTGTGGTTGGTTTTAAAAATCTGGTAACTCCATGATGAAAAGAAATTTATTTTATACGTGTATGTCTCTA  
ATAAAGTATTCATTTGATAAAAAAAAAAAAAA



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**FIGURE 2603**

MSAGGASVPPPPNPAVSFPPPRVTLFAGPDILRTYSGAFVCLEILFGGLVWILVASSNVPLPLLQGWMFVSVTA  
FFFSLFLGMFLSGMVAQIDANWNFLDFAYHFTVFVFYFGAFLLEAAATSLHDLHCNTTITGQPLSDNQYNINV  
AASIFAFMTTACYGCSLGLALRRWRP

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**FIGURE 2604**

GGCGCGCTTTCAAACGCTCAGGTTTCTACCTTCCGGCTGCTTGGGAACCTCTTTCTTGCCCGCCAAGCCCCGAG  
CCACCCGGGCGCGGCGGGACTCCTAGACCCGGCGCTGCGATGAAGAGGACCCGCGACGAGGTGGATGCGACGCTG  
CAGATCGCCAAGCTGAATGCGGCCGAGCTGCTGCCGGCGGTGCACTGCCTGGGCTTCGGCCCTGGGGCCAGCGGC  
GCTGCAGCCGGCGACTTCTGCCTGCTGGAGCTGGAGCCCACGCTGTGCCAGCAGCTGGAGGATGGACACAGTCTT  
GTGATTCGTGGTGATAAAGACGAGCAAGCTGTGCTGTGCAGTAAAGACAAAACATACGACTTGAAGATAGCAGAC  
ACTTCCAATATGTTGCTTTTCATTCCCTGGTTGTAAACTCCGGACCAGTTGAAGAAGGAAGATTACACTGTAAC  
ATTATTACACTGAGATCTTTGGTTTTCTAATAATTATTGGGAATTAAGAAGACGTAGACCCAAGTTAAAGAAG  
CTAAGAAACTTTTGATGGAAAATCCATATGAAGGACCTGACAGTCAAAAAGAGAAGGATTCAAATAGCTCAAAA  
TATACAACTGAAGATTGCTTGATCAAATTCAGGCAAGTGAGGAAGAAATAATGACCCAATTACAAGTTCTAAAT  
GCCTGTAAGATTGGAGGTTATTGGAGGATTCTTGAATTTGATTATGAGATGAAACTTCTGAATCATGTAACCTCAG  
CTTGTGGATTCTGAATCATGGTCTTTTGGTAAAGTTCCCTTGAACACATGCCTTCAGGAACCTCGGACCATTGGAG  
CCAGAGGAAATGATAGAACTGTCTTAAATGTTATGGGAAGAAATATGTAGATGAAGXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXXXXXXXXXXXAGCAGCAGCAGCAATGCTACTTCAGAATGCGGTGAAATTCAATCTCGCTGAG  
TTTCAAGAAGTGTGGCAGCAGAGTGTCTGAAGGAATGGTAACTAGTCTTGATCAGCTTAAGGGTTTAGCGCTG  
GTGGATAGACACTCGAGACCAGAAATCATATTTTTGCTGAAAGTAGATGATTACCTGAGGATAATCAGGAACGT  
TTTAATAGCCTTTTCTCTCTAAGGGAGAAGTGGACAGAAGAAGATATTGCTCCATATATTCAAGATTGTGTGGA  
GAGAAGCAAACCATAGGTGCATTACTACTAAATATTCTCATTCTTCGATGCAAAATGGTGTTAAAGTTTATAAT  
TCGAGAAGACCCATTTCTTAAAGAACAACGGTCTTTTCTTCAGGACTCAAGTTGCTTTATAAAGTTGCTGGATA  
GAAGAAAAATAAAGTTGTTACTTTTATTCTGACTTTTAGAAACCTAGTCTTCTAAGGCATTTTCTCCTCATCTTA  
AGCATTTTGAAGTACTGTATTCTTAAATGTTATAGGATGTAGCTTTAAATTTATTTGTACTATGTACACA  
GTGTAAACAAGGACAAAAGAAATCTTTCCTATATTATGTCTGAGGTCTCTATGATTATTTAAAGTTTGGCTTTT  
TATATTTAAATGTCAATTTCTTACTTAGGATTTGATGTTCTAATCATTAACTACTTAAGTTTCCAGAGAACT  
AAATAGTAATAGTTTCATAGAAGAGAACTATTTATTCACTTAAATATCATTCTCAAGTGAGTGAGTTCCCCTCT  
ACTTTTAGCCTTCCACCCAACTGGAAGCCTCTAGGTGCTATCAATTATTTATATCCATCGTTTACATCCATGAA  
ATTGGCTGAATAATTACTCCTCTGCCTGGCGTAGACATGCGCTTTGGGAAAAAACGAGTTTATAATCCTATAAT  
GAAGAATACTGGCACAGGCAATGCTCACTCGAAAACCTCAAGTAATTTCTAGTTGGTTTTGGAATGCTTGATAAA  
GTTCCTTTACAGCTTTATTTCTGATTGTTTTGGTTTAGATCAAAGTTCAAATTAATTTTAACTTAGCTAATG  
AACTCATCACCAGGACAGTTGGAGGGGGTAGGCCGAGGTTAAATGGTCCACGTTCAAAAATGTTAATGGCTAAT  
CCATAATTAAGAAGGTTTAACTGTTACTGAAGTTTACAAGTTTATTGTCATGAACATGAAATACAAACACGAT  
GGCTTCGAAATGTCTTTCAATAAATGTTTCTGCATT

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**FIGURE 2605**

ACGCCCTATACAACTTGGCTTCACATACTTTTACACTAACTTTATATGATTTTTAAAACTGGTCTGATCGGACT  
TCTCGTCTGGGACACTGTTTACTGGAGTCTGGCCGGCTCTCCGTGCTCCTCTTGGTACCTCATTTTGGGGAGAA  
CCTTAAACCCACTCGAGCAGATAATCTCCGCCTTGACCGGTGCCACCAAAGAAGCCTTGAACCATGTGGACTTT  
TCTGGGCATTGCCACTTTCACCTATTTTATAAGAAGTTCGGGGACTTCATCACTTTGGCCAACAGGGAGGTCTCT  
GTTGTGCGTGCTGGTGTTCCTCTCGCTGGGCCTGGTGTCTCCTACCGCTGTGCCACCAGAAACGGGGGTCTCCT  
CGGGCGCCAGCAGAGCGGCTCCAGTTCGCCCTCTTCTCGGATATTCTCTCAGGCCTGCCTTTCATTGGCTTCTT  
CTGGGCCAAATCCCCCCTGAATCAGAAAATAAGGAGCAGCTCGAGGCCAGGAGGCGCAGAAAAGGAACCAATAT  
TTCAGAAACAAGCTTAATAGGAACAGCTGCCTGTACATCAACATCTTCTCAGAATGACCCAGAAGTTATCATCGT  
GGGAGCTGGCGTGCTTGGCTCTGCTTTGGCAGCTGTGCTTTCAGAGATGAAGAAAGGTGACAGTCATTGAGAG  
AGACTTAAAAGAGCCTGACAGAATAGTTGGAGAATTCTTCAGCCGGGTGTTATCATGTTCTCAAAGACCTTGG  
TCTTGGAGATACAGTGAAGGTCTTGATGCCAGGTTGTAATGGTTACATGATTATGATCAGGAAAGCAAATC  
AGAGGTTTCAGATTCTTACCCTCTGTGAGAAAACAATCAAGTGCAGAGTGAAGAGCTTTCATCACGGAAGATT  
CATCATGAGTCTCCGGAAGCAGCTATGGCAGAGCCCAATGCAAAGTTTATGAAGGTGTTGTGTACAGTTATT  
AGAGGAAGATGATGTTGTGATGGGGAGTTCAGTACAAGGATAAAGAGACTGGAGATATCAAGGAACCTCCATGCTC  
CACTGACTGTTGTTGCAGATGGGCTTTTCTCCAAGTTCAGGAAAAGCCTGGTCTCCAATAAAGTTTCTGTATCAT  
CTCATTTTGTGGCTTTCTTATGAAGAATGCACCACAGTTTAAAGCAAATCATGCTGAACCTTATTTAGCTAACC  
CGAGTCCAGTTCTCATCTACCAGATTTTCATCCAGTGAACTCGAGTACTTGTGACATTAGAGGAGAAATGCCAA  
GGAATTTAAGAGAATACATGGTTGAAAAAATTTACCCACAAATACCTGATCACCTGAAAGAACCATTCTTAGAAG  
CCACTGACAATTCTCATCTGAGGTCCATGCCAGCAAGCTTCCTTCCTCCTTCATCAGTGAAGAAACGAGGTGTTT  
TTCTTTTGGGAGACGCATATAATATGAGGCATCCACTTACTGGTGGAGGAATGACTGTTGCTTTTAAAGATATAA  
AACTATGGAGAAAACCTGCTAAAGGTATCCCTGACCTTTATGATGATGCAGCTATTTTCGAGGCCAAAAATCAT  
TTTACTGGGCAAGAAAAACATCTCATTCTTTGTGCTGAATATCCTTGCTCAGGCTCTTTATGAATTATTTCTG  
CCACAGATGATTCCCTGCATCAACTAAGAAAAGCCTGTTTTCTTTATTTCAAACCTTGGTGGCGAATGTGTTGCGG  
GTCCTGTTGGGCTGCTTTCTGTATTGTCTCCTAACCTCTAGTTTTAATTGGACACTTCTTTGCTGTTGCAATCT  
ATGCCGTGATTTTTTGCTTTAAGTCAGAACCTTGGATTACAAAACCTCGAGCCCTTCTCAGTAGTGGTGTGTAT  
TGTACAAAGCGTGTTCTGTAATATTTCTCTAATTTACTCAGAAATGAAGTATATGGTTTATTAAAGCTTAAAGG  
GAACCATTTGTGAATGAATATTTGGAACCTTACCAAGTCTTAAGAGACTTTTGGAGAGGATATATATAGCATAGT  
ACCATACCACTTATAAAGTGGAACTCTTGGACCAAGATTGGATTAATTTGTTTTGAAGTTTTTGTATATAA  
ATATGTAAATACATGCTTTAATTTGCAATTTAAATGAAGGGTTAAATAAGTTAGACATTTAAAGAAATGATT  
GTTACCATAAATTAGTGCTAATGCTGAGGAGAACTACAGTTTTTCTTTTGAATTTAGTATTTGAGATGAGTTGTT  
GGGACATGCAAATAAAATGAAGAATGA

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**FIGURE 2606**

GGCAGAGCCCCGCTCAGTCACCCGCAGCAGGCGTGCACTTTCCCGGCTCTCCGCGCGGCCGGGGAAGGTCAGCGC  
CGTAATGGCGTTCTTGGCGTCGGGACCCTACCTGACCCATCAGCAAAAGGTGTTGCGGCTTTATAAGCGGGCGCT  
ACGCCACCTCGAGTCGTGGTGGTCCAGAGAGACAAATACCGATACCTTGCTTGTTTGATGAGAGCCCGGTTTGA  
AGAACATAAGAATGAAAAGGATATGGCGAAGGCCACCCAGCTGCTGAAGGAGGCCGAGGAAGAATTCTGGTACCG  
TCAGCATCCACAGCCATACATCTTCCCTGACTCTCCTGGGGGCACCTCCTATGAGAGATACGATTGCTACAAGGT  
CCCAGAATGGTGCTTAGATGACTGGCATCCTTCTGAGAAGGCAATGTATCCTGATTACTTTGCCAAGAGAGAACA  
GTGGAAGAACTGCGGAGGGAAAGCTGGGAACGAGAGGTTAAGCAGCTGCAGGAGGAAACGCCACCTGGTGGTCC  
TTTAACTGAAGCTTTGCCCCCTGCCCGAAAGGAAGGTGATTTGCCCCCACTGTGGTGGTATATTGTGACCAGACC  
CCGGGAGCGGCCCATGTAGAAAGAGAGAGACCTCATCTTTCATGCTTGCAAGTGAAATATGTTACAGAACATGCA  
CTTGCCCTAATAAAAAATCAGTGAAATGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2607**

MAFLASGPYLTHQQKVLRLYKRALRHLESWCVQRDKYRYFACLMRARFEEHKNEKDMAKATQLLKEAEEEFWYRQ  
HPQPYIFPDSPGGTSYERYDCYKVP EWCLDDWHPSEKAMYPDYFAKREQWKKLRRESWEREVKQLQEETPPGGPL  
TEALPPARKEGDLPLWWYIVTRPRERPM

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**FIGURE 2608**

CTGCTCGCGGCCGCCACCGCCGGGCCCCGGCCGTCCCTGGCTCCCCCTCCTGCCTCGAGAAGGGCAGGGCTTCTCA  
GAGGCTTGGCGGGAAAAAGAACGGAGGGAGGGATCGCGCTGAGTATAAAAGCCGGTTTTCGGGGCTTTATCTAAC  
TCGCTGTAGTAATTCAGCGAGAGGCAGAGGGAGCGAGCGGGCGGCCGGCTAGGGTGGAAGAGCCGGGCGAGCAG  
AGCTGCGCTGCGGGCGTCTGGGAAGGGAGATCCGGAGCGAATAGGGGGCTTCGCCTCTGGCCCAGCCCTCCCGC  
TGATCCCCCAGCCAGCGGTCCGCAACCCTTGCCGCA~~T~~CCACGAACTTTGCCCATAGCAGCGGGCGGGCACTTTG  
CACTGGA~~ACT~~TACAACACCCGAGCAAGGACGCGACTCTCCGACGCGGGGAGGCTATTCTGCCCATTTGGGGACA  
CTTCCCCGCGCTGCCAGGACCCGCTTCTCTGAAAGGCTCTCCTTGCAGCTGCTTAGACGCTGGATTTTTTTCGG  
GTAGTGGAAAACCAGCAGCCTCCCGCAGCATGCCCTCAACGTTAGCTTCACCAACAGGAATATGACCTCGAC  
TACGACTCGGTGCAGCCGTATTTCTACTGCGACGAGGAGGAGAACTTCTACCAGCAGCAGCAGCAGAGCGAGCTG  
CAGCCCCCGGCGCCAGCGAGGATATCTGGAAGAAATTCGAGCTGCTGCCACCCCGCCCCCTGTCCCTAGCCGC  
CGCTCCGGGCTCTGCTCGCCCTCCTACGTTGCGGTACACCCCTTCTCCCTTCGGGGAGACAACGACGGCGGTGGC  
GGGAGCTTCTCCACGGCCGACCAGCTGGAGATGGTGACCGAGCTGCTGGGAGGAGACATGGTGAACCAGAGTTTC  
ATCTGCGACCCGGACGACGAGACCTTCATCAAAAACATCATATCCAGGACTGTATGTGGAGCGGCTTCTCGGCC  
GCCGCCAAGCTCGTCTCAGAGAAGCTGGCCTCCTACCAGGCTGCGCGCAAAGACAGCGGCAGCCCGAACCCCGCC  
CGCGGCCACAGCGTCTGCTCCACCTCCAGCTTGACCTGCAGGATCTGAGCGCCGCGCCTCAGAGTGCATCGAC  
CCCTCGGTGGTCTTCCCTACCTCTCAACGACAGCAGCTCGCCCAAGTCTGCGCCTCGCAAGACTCCAGCGCC  
TTCTCTCCGTCCTCGGATTCTCTGCTCTCCTCGACGGAGTCTCCCCGAGGGCAGCCCCGAGCCCTGGTGCTC  
CATGAGGAGACACCGCCACCACCAGCAGCGACTCTGAGGAGGAACAAGAAGATGAGGAAGAAATCGATGTTGTT  
TCTGTGGA~~AA~~AGAGGCAGGCTCCTGGCAAAGGTGAGAGTCTGGATCACCTTCTGCTGGAGGCCACAGCAAACCT  
CCTCACAGCCCACTGGTCTCAAGAGGTGCCACGTCTCCACACATCAGCACAACTACGCAGCGCCTCCCTCCACT  
CGGAAGGACTATCTGCTGCCAAGAGGGTCAAGTTGGACAGTGTGAGAGTCTGAGACAGATCAGCAACAACCGA  
AAATGCACCAGCCCCAGGTCTCGGACACCGAGGAGAATGTCAAGAGGCGAACACACAACGTCTTGAGCGCCAG  
AGGAGGAACGAGCTAAACGAGCTTTTTTGCCCTGCGTGACCAGATCCCGGAGTTGGA~~AA~~ACAATGAAAAGGCC  
CCCAAGGTAGTTATCTTAAAAAAGCCACAGCATACATCCTGTCCGTCCAAGCAGAGGAGCAAAGCTCATTCT  
GAAGAGGACTTGTTGCGGAAACGACGAGAACAGTTGAAACACAACTTGAACAGCTACGGA~~ACT~~CTTGTGCGTAA  
GGAAAAGTAAGGAAACGATTCTTCTAACAGAAATGTCTGAGCAATCACCTATGAACTTGTTTCAAATGCATG  
ATCAAATGCAACCTCACACCTTGGCTGAGTCTTGAGACTGAAAGATTTAGCCATAATGTAAACTGCCTCAAATT  
GGACTTTGGGCATAAAAGAACTTTTTTATGCTTACCATCTTTTTTTTTCTTTAACAGATTTGTATTTAAGAATT  
GTTTTTAAAAAATTTTAA

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**FIGURE 2609**

GGTAATTCATTTGCACACCTGTTAGCAAGAAACAGAAGTTGAAGGACTGGAACAAGTGAAGTGAAGGAAAGAGGGAA  
CGCCAATCCAAGGATAGAAGGACAAGGACAGAATCACCAGCACTGGCTGAAGGTACCTTAACATGGGGAATCTTC  
TTAAAGTTTTGACATGCACAGACCTTGAGCAGGGGCCAAATTTTTCTTGATTTTGAAAATGCCAGCCTACAG  
AGTCTGAGAAGGAAATTTATAATCAGGTGAATGTAGTATTTAAAAGATGCAGAAGGCATCTTGGAGGACTTGCAGT  
CATACAGAGGAGCTGGCCACGAAATACGAGAGGCAATCCAGCATCCAGCAGATGAGAAGTTGCAAGAGAAGGCAT  
GGGGTGCAGTTGTTCCACTAGTAGGCAAATTAAGAAATTTTACGAATTTTCTCAGAGGTTAGAAGCAGCATTAA  
GAGGTCTTCTGGGAGCCTTAACAAGTACCCCATATTCTCCACCCAGCATCTAGAGCGAGAGCAGGCTCTTGCTA  
AACAGTTTGCAGAAATCTTCATTTTACACTCCGGTTTGATGAACTCAAGATGACAAATCCTGCCATACAGAATG  
ATTTACAGTATTATAGAAGAACATTGAGTCGTATGAGGATTAACAATGTACCGGCAGAAGGAGAAAATGAAGTAA  
ATAATGAATTGGCAAATCGAATGTCTTTGTTTTATGCTGAGGCAACTCCAATGCTGAAAACCTTGAGTGATGCCA  
CAACAAAATTTGTATCAGAGAATAAAAATTTACCAATAGAAAATACCACAGATTGTTTAAGCACAATGGCTAGTG  
TATGCAGAGTCATGCTGGAAACACCGGAATACAGAAGCAGATTTACAAATGAAGAGACAGTGTCTATTCTGCTTGA  
GGGTAATGGTGGGTGTCATAATACTCTATGACCACGTACATCCAGTGGGAGCATTGCTAAAACCTCCAAAATTG  
ATATGAAAGGTTGTATCAAAGTTCTTAAGGACCAACCTCCTAATAGTGTGGAAGGTCTTCTAAATGCTCTCAGGT  
ACACAACAAAACATTTGAATGATGAGACTACCTCCAAGCAAATTAATCCATGCTGCAATAACAATTCTGGAATA  
AGCACCTGCTGTAGACAGAAGACAGTATTCTGCAATGACTGAGAATGCAGTTTTTTAGTGATTGCAATTACTATC  
TCATTTATTCTTGCTTTTTATTCTTTCTCTGTTCTCTTCCCTCTTTTTTAATCATGTTCTTAAGACTTCTTTT  
CTGTGCCAAAATCAGTAAAGTTACACTCTGAAGGGATATCATCCTTTCAAACGGGCCATCTAAGGCAGCTAATTA  
TGCATTGCATTGGGGTCTCTACTGAGAAAAATCTGTGACTTGAATAAATATTTTAAATGTGGATTTTTTTTG  
AACTAATATTTAATATTGCTTCTCCTGCATGGCAAACTGCCTATTCTGCTATTTAAAAACCCCAATGACTTT  
ATTTTCTACTGCCGCCTTTTTTCATGTGCAACCAAAATGAAAATGTTTAAATTAAGTGTGTTGTACAAATGGTACC  
CAACACAACTTTTTTTAAATTAGTAATACTTTTGTTTAAAGTTTAAAGTTTGCATTTTGACTTTTTTTGTAAGG  
ATGTATGTTGTGTGTTTAACTTTTATTAACCTAACGTTAAAAGCTGTGATGTGTGCGTAGAATATTACGTATGCAT  
GTTTCATGTCTAAAGAATGGCTGTTGATGATAAAAATAAAAATCAGCTTTTCATTTTTCT

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**FIGURE 2610**

MGNLLKVLCTDLEQGNFFLDFENAQPTSESEKEIYNQVNVVLKDAEGILEDLSYRGAGHEIREAIOHPADEKL  
QEKAWGAVVPLVGKLKKFYEFSSORLEAALRGLLGALTSTPYSPTQHLEREQALAKQFAEILHFTLRFDLKMNTN  
AIQNDFSYYRRTLSRMRINNVPAEGENEVNNELANRMSLFYAEATPMLKTLSDATTKFVSENKNLPIENTTDCLS  
TMASVCRVMLETPEYRSRFTNEETVSFCLRVMVGVIILYDHVHPVGAFAKTSKIDMKGCIVLKDQPPNSVEGLL  
NALRYTTKHLNDETTSKQIKSMLQ



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**FIGURE 2611**

CTAATTCCTAGATTAGACGTTGGTAGGGAGGCCGATAAGTCAAAGTGGCAAGTGTCAAGTGTACACCAAAGGGA  
GCGACCAGAACAGAGTAAAGCCCATAAACCGAGTAAAAACAAACAACACCACAGTCCCTCAAAGCTGTAGGCCAC  
GTAGTATGAGGGAAACAGCACCACCGCTGGGGCAGTGTGTCATCAGAAGAGCATTAGGAAGAGGTCCGTATCTTG  
CAGTTTATGTTGAAGTTTCTGGTAAAGATGGTCAGAAGCGGGAACCTGACACTTCAAAGTGAAGCTTCAGTTAC  
CTGGGCGCCCAAGGGGAGGTGTTCTCCCCAGTGATGCCGGGCAAATGAACCAACAGCTGGATCATACTTCTCATT  
TGACATGCTTTTTGGGGGACCTACGTGGGGTTCAGCACTGCGCCGGGCCACAGATTTCAGGGCCAATGAGGATG  
TGGTCCCTGCCCCGAGCCTGATGCTCTAAGTGCTGAGGGTGGAGGGCTTCCCGGAGGAGGTGTTCTCTGAGGAG  
AGTGCAATGTGGCTGGGTGTGAGCTCTGAGCACAGAAGTCACTTGGGGATCATAGCAGTTTTGTTGTGAGGGACA  
GTGTG

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**FIGURE 2612**

GCTCCGGGCCAGCCGCGGTCCAGAGCGCGGAGGTTTCGGGGAGCTCGGCCAGGCTGCTGGTACCTGCGTCCGCCC  
GGCGAGCAGGACAGGCTGCTTTGGTTTGTGACCTCCAGGCAGGACGGCCATCCTCTCCAGAATGAAGATCTTCTT  
GCCAGTGCTGCTGGCTGCCCTTCTGGGTGTGGAGCGAGCCAGCTCGCTGATGTGCTTCTCCTGCTGAACCAGAA  
GAGCAATCTGTACTGCCTGAAGCCGACCATCTGCTCCGACCAGGACAACACTACTGCGTGACTGTGTCTGCTAGTGC  
CGGCATTGGGAATCTCGTGACATTTGGCCACAGCCTGAGCAAGACCTGTTCCCCGGCCTGCCCCATCCCAGAAGG  
CGTCAATGTTGGTGTGGCTTCCATGGGCATCAGCTGCTGCCAGAGCTTTCTGTGCAATTTAGTGCGGCCGATGG  
CGGGCTGCGGGCAAGCGTCACCCCTGCTGGGTGCCGGCTGCTGCTGAGCCTGCTGCCGGCCCTGCTGCGGTTTGG  
CCCCTGACCGCCCAGACCCCTGTCCCCCGATCCCCCAGCTCAGGAAGGAAAGCCCAGCCCTTTCTGGATCCCACAG  
TGATATGGGAGCCCCTGACTCCTCACGTGCCCTGATCTGTGCCCTTGGTCCCAGGTCAGGCCCACCCCTGCACCTC  
CACCTGCCCCAGCCCCTGCCCTCTGCCCCAAGTGGGGCCAGCTGCCCTCACTTCTGGGGTGGATGATGTGACCTTC  
CTTGGGGGACCGCGGAAGGGACGAGGGTTCCCTGGAGTCTTACGGTCCAACATCAGGACCAAGTCCCATGGACAT  
GCTGACAGGGTCCCCAGGGAGACCGTGTCTAGTAGGGATGTGTGCCCTGGCTGTGTACGTGGGTGTGCAGTGCACGT  
GAGAGCACGTGGCGGCTTCTGGGGGCCATGTTTGGGGAGGGAGGTGTGCCAGCAGCCTGGAGAGCCTCAGTCCCT  
GTAGCCCCCTGCCCTGGCACAGCTGCATGCACTTCAAGGGCAGCCTTTGGGGGTTGGGGTTTCTGCCACTTCCGG  
GTCTAGGCCCTGCCCCAAATCCAGCCAGTCCTGCCCCAGCCCACCCCCACATTGGAGCCCTCCTGCTGCTTTGGT  
GCCTCAAATAAATACAGATGTCCCC

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**FIGURE 2613**

TGTTGAGAGGCTGGCCTGCGGTGATGTGGCCAAAGAGGAAGAGCTGGGCTGGGGTGAGTGTTGGTCACATGGTTG  
AAACTAGGTGGGGAGGGGAGTGGTCCAGGGGAGAGTCCAGGCCAGCTCTGCTGGGACTTGCCATGGGGGCACG  
ACTCATCTGCAGGGAAGGTCTGGGCTTTATCTCTGAGCACCTCTGTGTGCTGCTCACCCCTGAAGTGGGGGTGGGC  
CTGTGCCTGGCCTGTCCCCTCATCTGGGAGCTCCCAATGCCCATCTGCAAGGCTGTGGACCCCTCAGGAGTGGC  
CTGGAGCCTGGCTCCCATTGCCACATGGTGGCTGTGTGTGTGGAGAGGGTTGATAGTGGAGTGGTCAGGCCCAGG  
CTGCCCTGGGGGATGAAGTGCCATCCTCTGGGTGCCCTGGAGAAAGAAGAGAACTCAGTGAGCCCTGTCTGGTAC  
TTTCCCTGGAGGAGGGCTCCCATGCTGGCCCTCCACCCCTCTGTCCCCTGTACCCTGAGGCCTCTGGATTTCCTC  
TCTGCCCTTCCCAACCTGCCAACTTCACGGGTTTCTGGCTGGGTTCTGGGGATGGCCCCCTAGGGGAGACGGGCCA  
GGCACAAGCGGGGCTGTGTCAAGGTGGGTATGCAGGGGTAGCACAAGTGTGCAGAGCCTGGGGAGGCATGGGCAA  
AGCATGGCAGGCGGGCGGGGAGGGGATCTTGAAGGTACAGGGCTGGGGAGCAGTGTGGGCAGCGGCCAGAGGT  
GGGAAGGCCGTAGCTTAGCTGGGTGTCCCCTTCTGTCTCTGCAGGTGGAGCCCCCTGAGCTGCCCGCTGATCT  
GCAGCACTGGATCTCTTACAACGAGGCCAGCAGCCAGCTGTCCGATGGAGAGTGGGCTCAGTGATGTACCAA  
GGACCAGTGACCGCCACCTTCACACCGTCTGCCCTGGCCACCATCCTGGGCCCTGGGGGCTGCCACAGATGGGCA  
GTCTCAGCCATACTCTGTTCCAGCTGGAGTAGCCTCCTGACCAGCCTGGCCCCACCTGCTCCACCCACTGGGCCC  
CCCCAGTTATTGATAACCCCTCTGTGCTGGGCTCCACGCTAGGCAGAAGGAGGAGTGGCATTGGCATCCTGACCCA  
GCTCTGCCCTCAAGGTGGGGATGGATGGGCAAAGGAGAGTCTGCCTGGCCCTACGATGAGGCCACTCATGTGGG  
CCTAGGTAGGGGAGGATGGTGCCTGGAGCAGAGGGACCCACAAGTGCCTCCCGAGCCTAGATCCTGGCTCGGACC  
ACTGCAAGGGCCGAGGCAGGGCCAGACCAGAGCATCCTGGGTACAGGCCTGGGCTCTCCAGGGCCTGGGCTGAT  
TCAGGTGCAGTGGGCACCTCTGAAGGGTCAGAGCGGCATCTGCCAGGCAGCCCCCTCTGGCTTCCGCTGAGGTGGT  
TGCAGGCCTGGGGCAGAGCCTGGGTGGTCAGAGCGGGGCTAGAGGCAGATGGAAGGGAGGCATTGCTGACAG  
AGGACGGGGCACCCGGGCTCCCCACTGCAGTCGGCCTTGCCCTCCTCCTCTACCTCCAGTCAGGCTGGAC  
GGGAGGGTAGCCTTGTTGGCTGAGAGGGGTGAGCTAGGTGGCACAGGGGCTCCTGGAAAGACAGCAGGCTTCCTG  
CTGGGCGTTCCCTTGTTGGAGGGAATAGAGTGGGGGTGGGACTCTGCAGGGGTGTCTTGTCCACTCGCACCCCT  
CGCCGCCACCCAGGGCCATGCTCTGTGACTTGGGCTGATCCCCACCCTTTCTGGGCCTACAGCACCAAGAGCCGC  
TGTACCCCTTAGAGCTGCCCCCTCTCTGGCCTGGCCGGCAGGCGTCTTCTTAACCTCTTGTCTCTATATTAG  
CATGTTCCCTTGTCAGCTGCTGGGCCGGCCCTGCCTTGCGCTAGCAGAGCCTCTCCTGGCAGCTTCTCAGGTCTCC  
CTAATGGAGACACCAGCCTGAGGCTCCAGCTGATGCCCTCAGCTCCCAGAGAGGGGGTGCCCCATCTAGCTGGGT  
GCAGGGGTCACTGCTTGTGAGCTCAGGGCCCTGTGCCCGCTTGCCCTGTTCCCTACATCTGTGCTGCACATCCA  
GAACTGCCTCCTTGCCGCTGCCTCCAGGAAGCCCACCTTGAGCCAGAGTCAAGGGCTGCAGCACTGCCCCGATAGA  
ACACGCCCCGCTCACTGCTGTTCTTGCCCTTACAGCCACCATGGGAAAGCTGCAACCTTTCTGTTTTATTAAAG  
AAAGCCCAACATTAAAGGGTTTTTCATTGC

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**FIGURE 2614**

GGGCACCGTAACCAGCGCCGCGGACACCGGCACCGGCGCCACGGACTCCGCAGGACCCGCGCCCGCGCCGCGG  
CTATGCTGGGGCTGCTGGTGGCGTTGCTGGCCCTGGGGCTCGCTGTCTTTGCGCTGCTGGACGTCTGGTACCTGG  
TGCGCCTTCCGTGCGCCGTGCTGCGCGCGCGCCTGCTGCAGCCGCGCTCCGTGACCTGCTAGCTGAGCAGCGCT  
TCCCGGGCCGCGTGCTGCCCTCGGACTTGGACCTGCTGTTGCACATGAACAACGCGCGCTACCTGCGCGAGGCCG  
ACTTTGCGCGCTGCGCACCTGACCCGCTGCGGGGTGCTCGGGGCGCTGAGGGAGTTGCGGGCGCACACGGTGC  
TGGCGGCCTCGTGCAGCGGCCACCGCCGCTCGCTGCGCCTGCTGGAGCCCTTCGAGGTGCGCACCCGCTGCTGG  
GCTGGGACGACCGCGCTTCTACCTGGAGGCGCGCTTTGTGAGCCTGCGGGACGGTTTCGTGTGCGCGCTGCTGC  
GCTTCCGGCAGCACCTGCTGGGCACCTACCCGAGCGCGCTCGTGCAGCACCTGTGCCAGCGCAGGGTGGAGCCCC  
CTGAGCTGCCCCGCTGATCTGCAGCACTGGATCTCCTACAACGAGGCCAGCAGCCAGCTGCTCCGCATGGAGAGTG  
GGCTCAGTGATGTCACCAAGGACCAGTGAACCGCCACCTTCACACCGTCTGCCCTGGCCACCATCTGGGCCCTGGG  
GGCTGCCCACAGATGGGCAGTCTCAGCCATACTCTGTTCCAGCTGGAGTAGCCTCCTGACCAGCCTGGCCCCACC  
TGCTCCACCCACTGGGCCCCCCCCAGTTATTGATACCCCTCTGTGCTGGGCTCCACGCTAGGCAGAAAGGAGGAGTG  
GCATTGGCATCTGACCAGCTCTGCCCTCAAGGTGGGGATGGATGGGCAAAGGAGAGTCTGCTGCCCCCTACG  
ATGAGGCCACTCATGTGGCCCTAGGTAGGGGAGGATGGTGCCTGGAGCAGAGGGACCCACAAGTGCCTCCCGAGC  
CTAGATCCTGGCTCGGACCACTGCAAGGGCCGAGGCAGGGCCAGACCAGAGCATCTGGGTACAGGCCTGGGCTC  
TCCAGGGCCTGGGCCTGATTAGGTGCAGTGGGCACTCCTGAAGGGTCAGAGCGGCATCTGCCAGGCAGCCCCCTC  
TGGCTTCCGCTGAGGTGGTTGCAGGCCTGGGGCAGAGCCTGGGTGGTCAGAGGCCGGGGCTAGAGGCAGATGGAA  
GGGAGGCATTTGCTGACAGAGGACGGGGCACCCGGGCTCCCCACTGCAGTCGGCCTTGCCCTCCTCCTCCTCCT  
ACCTCCAGTCAGGCTGGACGGGAGGGTAGCCTTGTGGCTGAGAGGGGTCAGACTAGGTGGCACAGGGGCTCCTGG  
AAAGACAGCAGGCTTCTGCTGGGCGTTCCCTTGTGGAGGGAATAGAGTGGGGGTGGGACTCTGCAGGGGTGTC  
CTTGTCCACTCGCACCCCTCGCCGCCACCAGGGCCATGCTCTGTGACTTGGGCTGATCCCCACCCTTTCTGGGC  
CTACAGCACCAAGGCCGCTGTACCCCTTAGAGCTGCCCTCTCTGGCCTGGCCGGCAGGCGTCTTCTTAACCTC  
CTCTGTCTCTATATTAGCATGTTCTTGTGAGCTGCTGGGCCGGCCCTGCCTTGCCTAGCAGAGCCTCTCCT  
GGCAGCTTCTCAGGTCTCCCTAATGGAGACACCAGGCTACTAGGACACTGGCTGGGGCCACCCCTCCTGCCTAA  
TGCTCACCTTACAGCTGGGGAAACTGAGGCCTGGAATGGCCAGAGTCACCAAGGCAAAGTTGGGGCTGGTCCC  
AGCCTGAGGCTCCAGCTGATGCCCTCAGCTCCCAGAGAGGGGTGCCCATCTAGCTGGGTGCAGGGGTCACTGC  
TTGTGAGCTCAGGGCCCTGTGCCCGCTTGCCCTGTTCCCTACATCTGTGCTGCACATCCAGAACTGCCTCCTTG  
CCGTGCTCCTCCAGGAAGCCACCTTGAGCCAGAGTCAAGGGCTGCAGCACTGCCCGATAGAACACGCCCGCCCTC  
ACTGCTGTTCTTGCTTACAGCCACCATGGGAAAGCTGCAACCTTTCTGTTTTATTTAAAGAAAGCCCAACATTA  
AAGGGTTTTTATTGCAAAAAAAAAAAAAAAAAA

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**FIGURE 2615**

MLGLLVALLALGLAVFALLDVWYLVRLPCAVLRARLLQPRVRDLLAEQRFPGRVLP  
SDLDLLHMMNNARYLREAD  
FARVAHLTRCGVLGALRELRAHTVLAASCARHRRSLRLLEPFVVRTLLGWDDRAFYLEARFVSLRDGFV  
CALLR  
FRQHLLGTSPERVVQHLCQRRVEPPELPADLQHWISYNEASSQLRMESGLSDVTKDQ

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**FIGURE 2616**

CTTTCCCGGAGGCTGGCAGATGCGCGTGGTGGCGCTGCTGCGGCTCCGGGCGGCTCTGACGCTGCTCGGGGAGGT  
CCCCCGCCGCCCGGCTCCCGGGGTGTCCCGGGCTCGCGCAGGACGCAGAAGGGCAGTGGAGCCAGGTGGGAGAA  
GGAGAAGCACGAAGACGGGGTGAAGTGGAGACAGCTGGAGCACAAGGGCCCGTACTTCGCACCCCCATACGAGCC  
CCTTCCCGACGGAGTGCCTTTCTTCTATGAAGGAAGGCTGTGAGATTGAGCGTGGCAGCGGAGGAGGTGCGCAC  
TTTTTATGGGAGGATGTTAGATCATGAATACACAACAAAGGAGGTTTTCCGAAGAAGTCTTCAATGACTGGCG  
AAAGGAAATGGCGGTGGAAGAGAGGGAGTCATCAAGAGCCTGGACAAGTGTGACTTCACGGAGATCCACAGATA  
CTTTGTGGACAAGGCCGAGCCCGGAAAGTCTGAGCAGGGAGGAGAAGCAGAAGCTAAAAGAAGAGGCAGAAAA  
ACTTCAGCAAGAGTTCGGCTACTGTATTTTAGATGGTCACCAAGAAAAATAGGCAACTTCAAGATTGAGCCGCC  
TGGCTTGTTCGTTGGCCGTGGCGACCATCCCAAGATGGGGATGCTGAAGAGAAGGATCACGCCAGAGGATGTGGT  
TATCAACTGCAGCAGGGACTCGAAGATCCCCGAGCCGCCGGCGGGGCACCAAGTGAAGGAGGTGCGCTCCGATAA  
CACCGTCACGTGGCTGGCAGCTTGGACCGAGAGCGTTTCAAGTCCATCAAGTACATCATGCTGAACCCCTTGCTC  
GAAGCTGAAGGGGAGACAGCTTGGCAGAAGTTTGAACAGCTCGACGCCTGCGGGGATTTGTGGACGAGATCCG  
CTCCAGTACCGGGCTGACTGGAAGTCTCGGGAAATGAAGACGAGACAGCGGGCGGTGGCCCTGTATTTTCATCGA  
TAAGCTGGCACTGAGAGCAGGAAATGAGAAGGAGGACGGTGAGGCGGCCGACACCGTGGGCTGCTGTTCCCTCCG  
CGTGGAGCACGTCCAGCTGCACCCGGAGGCCGATGGCTGCCAACACGTGGTGAATTTGACTTCTTGGGGAAGGA  
CTGCATCCGCTACTACAACAGAGTGCCGGTGGAGAAGCCGGTGTACAAGAAGTACAGCTCTTTATGGAGAACAA  
GGACCCCCGGGACGACCTCTTCGACAGGCTGACCACGACAGCCTGAACAAGCACCTCCAGGAGCTGATGGACGG  
GCTGACGGCCAAGGTGTTCCGGACCTACAACGCCCTCCATCACTCTGCAGGAGCAGCTGCGGGCCCTGACGCGCGC  
CGAGGACAGCATAGCAGCTAAGATCTTATCCTACAACCGAGCCAACCGAGTCTGTGGCCATTCTCTGCAACCATCA  
GCGAGCAACCCCAAGTACGTTTCGAGAAGTCGATGCAGAATCTCCAGACGAAGATCCAGGCAAAGAAGGAGCAGGT  
GGCTGAGGCCAGGGCAGAGCTGAGGAGGGCGAGGGCTGAGCACAAGCCCAAGGGGATGGCAAGTCCAGGAGTGT  
CCTGGAGAAGAAGAGGCGGCTCCTGGAGAAGCTGCAGGAGCAGCTGGCGCAGCTGAGTGTGACGGCCACGGACAA  
GGAGGAGAACAAAGCAGGTGGCCCTGGGCACGTCCAAGCTCAACTACCTGGACCCCAAGATCAGCATTGCCTGGTG  
CAAGCGGTTTCAGGGTGCCAGTGGAGAAGATCTACAGCAAAACACAGCGGGAGAGGTTTCGCCTGGGCTCTCGCCAT  
GGCAGGAGAAGACTTTGAATTTAAACGACGAGCCGTGTTGAAACTTCTTTTGTATGTGTGTGTTTTTTTCACT  
ATTAAAGCAGTACTGGGGAATTTGTACAATAAAAAAAAAAAAAAAAAA

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**FIGURE 2617**

MRVVRLRLRAALTLLGEVPRRPASRGVPGSRRTQKSGGARWEKEKHEDGVKWRQLEHKGPYFAPPYEPLPDGVR  
FFYEGRPVRLSVAAEEVATFYGRMLDHEYTTKEVFRKNFFNDWRKEMAVEEREVIKSLDKCDFTEIHRYFVDKAA  
ARKVLSREEKQKLKEEAELQQEFGYCILDGHQEKIGNFKIEPPGLFRGRGDHPKMGMLKRRITPEDVVINCSRD  
SKIPEPPAGHQWKEVRSDNTVTWLAAWTESVQNSIKYIMLNPCSKLKGETAWQKFETARRLRGFVDEIRSQYRAD  
WKSREMKTQRVALYFIDKLALRAGNEKEDGEAADTVGCCSLRVEHVQLHPEADGCQHVEFDLFGKDCIRYYN  
RVPVEKPVYKNLQLFMENKDPRDDLFDRLTTSLNKHLQELMDGLTAKVFRTYNASITLQEQRLALTRAEDSIAA  
KILSYNRRANRVVAILCNHQRATPSTFEKSMQNLQTKIQAKKEQVAEARAELRRARAETHKAQGDGKSRVLEKKRR  
LLEKLQEQLAQLSVQATDKEENKQVALGTSKLNLYLDPRIAWCKRFRVPVEKIYSKTQRERFAWALAMAGEDFE  
F





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**FIGURE 2619**

CAGAAAAATGGCTACAACTTCCTAGCACATGAGAAGATCTGGTTCGACAAGTTCAAATATGACGACGCAGAAAG  
GAGATTCTACGAGCAGATGAACGGGCCTGTGGCAGGTGCCTCCCGCCAGGAGAACGGCGCCCGTGATCCTCCGTG  
ACATTGCGAGAGCCAGAGAGAACATCCAGAAATCCCTGGCTGGAAGCTCAGGCCCCGGGGCCTCCAGCGGCACCA  
GCGGAGACCACGGTGAGCTCGTCGTCCGGATTGCCAGTCTGGAAGTGGAGAACCAGAGTCTGCGTGGCGTGGTAC  
AGGAGCTGCAGCAGGCCATCTCCAAGCTGGAGGCCCGGCTGAACGTGCTGGAGAAGAGCTCGCCTGGCCACCGGG  
CCACGGCCCCACAGACCCAGTGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCGGGCTACGG  
CAGTACGCGGAGAAGAAGGCCAAGAAGCCTGCACTGGTGGCCAAGTCCTCCAATCCTGCTGGATGTCAAGCCTTGG  
GATGATGAGACGGACATGGCCCAGCTGGAGGCCTGTGTGCGCTCTATCCAGCTGGACGGGCTGGTCTGGGGGGCT  
TCCAAGCTGGTGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTCAAGTGTGTGGTGGAGGACGACAAGGTGGGG  
ACAGACTTGCTGGAGGAGGAGATCACCAAGTTTGAGGAGCACGTGCAGAGTGTGATATCGCAGCTTTCAACAAG  
ATCTGAAGCCTGAGTGTGTGTACGTGCGCGCTGCGTGAGGCCCTGCCACGATTAAAGACTGAGAC

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**FIGURE 2620**

AGCGCAGCGCGTCCGAGGCAACAAGATGGCAGCTGCGGAGCCGTCTCCGCGGCGCGTGGGCTTCGTGGGCGCGG  
GCCGCATGGCGGGGGCCATCGCGCAGGGCCTCATCAGAGCAGGAAAAGTGGAAGCTCAGCACATACTGGCCAGTG  
CACCAACAGACAGGAACCTATGTCACTTTCAAGCTCTGGGTTGCCGACCACGCACTCCAACCAGGAGGTGCTAC  
AGAGCTGCCTGCTCGTCATCTTTGCCACCAAGCCTCATGTGCTGCCAGCTGTCTGGCAGAGGTGGCTCCTGTGG  
TCACCACTGAACACATCTTGGTGTCCGTGGCTGCTGGGGTGTCTCTGAGCACCTGGAGGAGCTGCTGCCCCAA  
ACACACGGGTGCTGCGGGTCTTGCCCAACCTGCCCTGTGTGGTCCAGGAAGGGGCCATAGTGATGGCGCGGGGCC  
GCCACGTGGGGAGCAGCGAGACCAAGCTCCTGCAGCATCTGCTGGAGGCCTGTGGGCGGTGTGAGGAGGTGCTG  
AAGCCTACGTGACATCCACACTGGCCTCAGTGGCAGTGGCGTGGCCTTCGTGTGTGCATTCTCCGAGGCCCTGG  
CTGAAGGAGCCGTCAAGATGGGCATGCCCAGCAGCCTGGCCCCACCGCATCGCTGCCCAGACCCTGCTGGGGACGG  
CCAAGATGCTGCTGCACGAGGGCCAACACCCAGCCCAGCTGCGCTCAGACGTGTGCACCCCGGTGGCACCACCA  
TCTATGGACTCCACGCCCTGGAGCAGGGCGGGCTGCGAGCAGCCACCATGAGCGCCGTGGAGGCTGCCACCTGCC  
GGGCCAAGGAGCTCAGCAGAAAGTAGGCTGGGCTCTGGCCATCCTTTCTGCTCTGTGCCCCCTGCCTCTCCCTG  
TGTCCCTTCCCTGAGGACTGCGGCTCCCTCCCTCCTGCATGAGGGTCTCCTACTGCTCCTTCTCCCTTGACA  
GGGAAATGCAGGGGGCAGGACTTGGGAGGTTCCAGCAGGCGGGGAGCCCCGACCAGTGGGGACACTCCTCCCTC  
CCCAGTGAGCAGAAGGCACCGTGGTGGTGGCTCTGCCCCCTGTGTCAGTGAGCCACCTTGCTGCAACATTGGTT  
CTGAGGGGCCCAAGAGATGGCGTCTTGGTCATTGCECCGCATGGTTGGGCAGTTGGTTGAGGCCATGAACAGAAC  
TTACGGTAACAGGCACGGCTGGCCCCAATGCCTGGTCTGGAGCTGGAGCTTGCCTTTGGCTTTCCAGGTGGCTCCG  
TGCAGCTACAGCCAGGCCGGCTGCCTCATCTCAGCTCTAGGGGGCACGAGCCATATGGGGTCTGCACAAGAGACC  
CTCTCCCTGCAGTAAAGCCAGGGGCCCTGGCCTGATGGGGCCCCATGGGGAGCTGGAGCCTGCCCTGCAGCCT  
GGAGAAGAGGGTGGCTGTGGTGGGCGTGCTCATCCCCTGTCTAAGGAGCAGGAGCTGCTGGGCCAGGTCTGCGGCA  
GTGCTGGGGTGGCACCAGGTGGGCAGTGGTAGGTGGGGTGGCTTGAGGTCTGGGAGGGTGGCCCTGGCCAGCCAG  
GACACATGCAGACCCCTGGCTTAGTCTGGATACAGGCTCCCTCTTTCTCCCAATCCTAAGCTCCTGACAAGTGG  
CCAGGTGGCTCTGGGCCCTCTGCCCCGTGCCTAGGTACAGGGTCTCTGGAATACCCCGTAGCTCTGGCACCACCA  
CACTGGCCTCTGATGGCAAGACTTGGCCCCCTCACCTGTCCCTAACGGACGGCAGGTACAGAAAGCCAGGACTCA  
GGGGAGAAGCAAACCCCCAGGATTGAAGGCTAGGGTTCTAGGGCCTTTGGGTGGGAGGGCCCCGGGCCGACAGC  
CTCAGCTCCGTCCCCTGCCCCACAAGATTACCTGGGCCTCCAGTCCCACGCTGGCCCCAACTGCTGCAGCTCTC  
GGCTTCCGCCCAACAGCCTCTGGAGGTGAGGCGGGAGCATGCCCTCAGCGAGGCTGGGCGGCGGGTCTGTGTG  
CCATCTCCCTGTGCGCCTGAGCAGATCAATCCACCAGTGCAAAACAGGGCTAACGGCACCTGCAGGACAGCAGCA  
CGCTCCATCCCTCATGCTCAGCTGCCTCTGCGGCCACGGACTTCTGCCCTTCATCTGCTCTCTTACTCTCCTG  
AGCCTAGCCCGTCCGTAAGCTCCCTCCCTGCCTGGTTCCAGGGCAGGCTGACTCAGTTGACTGCTTGGTCCAA  
GCCTGGCCCTGGCACTTGTGAGGGTCAGCCTAAGGAGATGGGAATAAAGAGGCCAGAGAGCACCAAGTGAGCTCA  
TGTTTC

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**FIGURE 2621**

MAAAEPSRRVGFVGAGRMAGATQAQLIRAGKVEAQHILASAPTDRLCHFQALGCRTTHSNQEVLQSCLLVIFA  
TKPHVLPVLAEVAPVVTTEHILVSVAAGVSLSTLEELLPPNTRVLRVLPNLEPCVVQEGAIVMARGRHVGSSEK  
LLQHLLEACGRCEEVPEAYVDIHTGLSGSGVAFVCAFSEALAEAVKMGMPSSLAHRIAQTLLGTAKMLLHEGQ  
HPAQLRSDVCTPGGTTIYGLHALEQGGGLRAATMSAVEAATCRAKELSRK

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**FIGURE 2622**

CGCGTGGTGCGGCTGCTGCGGCTCCGGGCGGCTCTGACGTGCTCGGGGAGGTCCCCGCCGCCCGCTCCCGGGAT  
GTCCGCTCGCGCAGGACGCGAGAAGGGCAGTGGAGCCAGAAACAGCCAGAAAGGCCCTTTCAGAAATGCTGTGTC  
ACATGCTTTCCCTCTCAGACCTTTCAGAGACTTCCTGTTGCTCTGAGGACACTCATCCCAGCCGACCAGGCCAC  
CAGGCCCCCAACAGCACTACCTGGCTGGGGTCACGTGCAGGTCTCCTGGCTCTGGCAGGTGGGAGAAGGAGAAGC  
ACGAAGACGGGGTGAAGTGGAGACAGCTGGAGCACAAGGGCCCGTACTTCGCACCCCCATACGAGCCCCCTTCCCG  
ATGGAGTGCGTTTCTTCTATGAAGGAAGGCCGTGTGAGATTGAGCGTGGCAGCGGAGGAGGTCGCCACTTTTATG  
GGAGGATGTTAGATCATGAATACACAACAAAGGAGGTTTTCCGGAAGAACTTCTCAATGACTGGCGAAAGG

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[illegible]

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**FIGURE 2624**

MEEKEILRRQIRLLQGLIDDYKTLHGNAAPGTPAASGWQPPTYHSGRAFSARYPRPSRRGYSSHHGPSWRKKYS  
LVNRPPGPSDPPADHAVRPLHGARGGQPPVPQQHVLERQVQLSQGQNVVVKVKPPSKSGSASASGAQRGSLEEFE  
ETPWSQPREGEGEPFRGQLQPSRPTRARGTCSVEDPLLVCQKEPGKPRMVKS VGSVGDSPREPRRTVSES VIA  
VKASFPSSALPPRTGVALGRKLGSHSVASCAPQLLGDRRVDAGHTDQPVPSGSGVGGPARPASGPRQAREASLVVT  
CRTNKFRKNNYKWVAASSKSPRVARRALSPRVAAENVCKASAGMANKVEKPQLIADPEPKPRKPATSSKPGSAPS  
KYKWKASSPSASSSSSFRWQSEASSKDHASQLSPVLSRSPSGDRPAVGHSGLKPLSGETPLSAYKVKSRTKIIRR  
RSSTSLPGDKKSGTSPAATAKSHLSLRRRQALRGKSSPVLKKT PKNGLVQVTTHRLCRLPPSRAHLPTKEASSLH  
RRGPLQSIQQAALQDLRPAQ

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**FIGURE 2625**

CTCCTGCGCACGCGGCCCGGTTCGCTGTTCGGAAGCGGCTGTGCGGGTGGCGGCCGCGCGCGGTGGGGCATGGCGG  
GTTTCGCGGGGTGCGGGGCGCACGGCGGGCGCCGAGCGTGCGGCCGAGAAGCGGCGGTCTGAGCCCGAACTGGAGC  
CTGAGCCCGAGCCGAGCCCCCCTCCTCTGCACCTCTCCTCTCAGCCACAGCACCGGCAGCGATTCTGGCGTCT  
CCGACAGCGAGGAGAGTGTGTTCTCAGGCCTGGAAGATTCCGGCAGTGACAGCAGTGAGGATGATGACGAAGGCG  
ACGAGGAGGGAGAGGACGGAGCCCTTGATGACGAGGGCCACAGTGGGATTAAAAAGACCACTGAGGAGCAGGTGC  
AGGCCAGCACTCCTTGCCCGAGGACAGAGATGGCGAGCGCCCGGATTGGGGATGAGTATGCGGAGGACAGCTCTG  
ATGAGGAGGACATCCGGAACACGGTGGGCAACGTGCCCTTGAGTGGTACGATGACTTCCCCACGTGGGCTACG  
ACCTGGATGGCAGGCGCATCTACAAGCCCCCTGCGGACCCGGGATGAGCTGGACCAGTTCCTGGACAAGATGGACG  
ATCCTGACTACTGGCGCACCGTGCAGGACCCGATGACAGGGCGGGACCTGAGACTGACGGATGAGCAGGTGGCCC  
TGGTGCGGCGGCTGCAGAGTGGCCAGTTTGGGGATGTGGGCTTCAACCCCTATGAGCCGGCTGTGCACTTCTTCA  
GCGGGGACGTCATGATCCACCCGGTGACCAACCGCCCGGCCACAAGCGCAGCTTCATCCCTCCCTGGTGGAGA  
AGGAGAAGGTCTCTCGCATGGTGCACGCCATCAAGATGGGCTGGATCCAGCCTCGCCGGCCCCGAGACCCACCC  
CCAGCTTCTATGACCTGTGGGCCCAGGAGGACCCCAACGCCGTGCTCGGGCGCCACAAGATGCACGTACCTGCTC  
CCAAGCTGGCCCTGCCAGGCCACGCCGAGTCGTACAACCCACCCCTGAATACCTGCTCAGCGAGGAGGAGCGCT  
TGGCGTGGGAACAGCAGGAGCCAGGCGAGAGGAAGCTGAGCTTTTGGCACGCAAGTTCCCGAGCCTGCGGGCCG  
TGCCTGCCTACGGACGCTTCATCCAGGAACGCTTCGAGCGCTGCCTTGACCTGTACCTGTGCCACGGCAGCGCA  
AGATGAGGGTGAATGTAGACCCTGAGGACCTCATCCCCAAGCTGCCTCGGCCGAGGGACCTGCAGCCCTTCCCCA  
CGTGCCAGGCCCTGGTCTACAGGGGCCACAGTGACCTTGTCCGGTGCCTCAGTGTCTCTCCTGGGGGCCAGTGGC  
TGGTTTCAGGCTCTGACGACGGCTCCCTGCGGCTCTGGGAGGTGGCCACTGCCCGCTGTGTGAGGACTGTTCCCG  
TGGGGGGCGTGGTGAAGAGTGTGGCCTGGAACCCAGCCCCGCTGTCTGCCTGGTGGCTGCAGCCGTGGAGGACT  
CGGTGCTGTCTGTAACCCAGCTCTGGGGGACCGGCTGGTGGCGGGCAGCACAGATCAGCTGTTGAGCGCCTTCG  
TCCCGCTGAGGAGCCCCCTTGACGCCGGCCCGCTGGCTGGAGGCTCAGAGGAGGAGCGCCAAGTGGGCCTGC  
GGCTGCGCATCTGCCACGGGAAGCCAGTGACGCAGGTGACCTGGCACGGGCGTGGGGACTACCTGGCCGTGGTGC  
TGGCCACCCAAGGCCACACCCAGGTGCTGATTACACAGCTGAGCCGTGCGCCGAGCCAGAGTCCGTTCCGCCGCA  
GCCACGGACAGGTGCAGCGAGTGGCCTTCCACCCTGCCCGGCCCTTCTGTTGGTGGCGTCCCAGCGCAGCGTCC  
GCCTCTACCACCTGCTGCGCCAGGAGCTCACCAAGAAGCTGATGCCCAACTGCAAGTGGGTGTCCAGCCTGGCGG  
TGCACCTGCAGGTGACAACGTCTGTGTGGGAGCTACGATAGCAAGCTGGTGTGGTTTGACCTGGATCTTTCCA  
CCAAGCCATACAGGATGCTGAGACACCACAAGAAGGCTCTGCGGGCTGTGGCCTTCCACCCGCGGTACCCACTCT  
TTGCGTCAGGCTCGGACGACGGCAGTGTCTGTCGTCATCGTCTGCCATGGCATGGTGTACAATGACCTTCTGCAGAACCCT  
TGCTGGTGGCCGTCAAGGTGCTGAAGGGACACGTGCTGACCCGAGATCTGGGAGTGTGGACGTCTATCTCCACC  
CCACCCAGCCGTGGGTCTTCTCCTCGGGGGCAGACGGGACTGTCCGCCTCTTACCTAGCTGTTCTGCCTGCCTG  
GGGCTGGGGTGGTGTGCTGAAGTCAACAGAGCCTTACCCTGTGCTGCCTGGTGTCTCCACCTTCTTGAATTGG  
GGTTGCCAACAAAGCCGCCCCCACCACA

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**FIGURE 2626**

GCCCGTTGCAAGATGGCGGCGGCCATGCTGGGCCCCGGGGCTGTGTGTGCGCAGCGGGCGGCGGCGGCGGCCGGA  
AGGCTGGCGGCGGCGACGGCGTTAGCCCCGGCCCTCGGCCCTCTTTGCGGCCGCTCCCTCCGCCTATTCCCTCCTT  
GCTCGAGATGGATCTGCCCCGTGGGCECCGGCGCGGGGGCCAGCAACGTCCCGGCCCTTCCTGACCAAGCTGTG  
GACCCTCGTGAGCGACCCGGACACCGACGCGCTCATCTGCTGGAGCCCGAGCGGGAACAGCTTCCACGTGTTGCA  
CCAGGGCCAGTTTGCCAAGGAGGTGCTGCCCAAGTACTTCAAGCACAACAACATGGCCAGCTTCGTGCGGCAGCT  
CAACATGTATGGCTTCCGGAAAGTGGTCCACATCGAGCAGGGCGGCCTGGTCAAGCCAGAGAGAGACGACACGGA  
GTTCCAGCACCCATGCTTCCTGCGTGGCCAGGAGCAGCTCCTTGAGAACATCAAGAGGAAAGTGACCAGTGTGTC  
CACCTGAAGAGTGAAGACATAAAGATCCGCCAGGACAGCGTCACCAAGCTGCTGACGGACGTGCAGCTGATGAA  
GGGGAAGCAGGAGTGCTGGACTCCAAGCTCCTGGCCATGAAGCATGAGAATGAGGCTCTGTGGCGGGAGGTGGC  
CAGCCTTCGGCAGAAGCATGCCCAGCAACAGAAAGTCGTCACCAAGCTCATTGAGTTTCTGATCTCACTGGTGCA  
GTCAAACCGGATCCTGGGGGTGAAGAGAAAGATCCCCCTGATGCTGAACGACAGTGGCTCAGCACATTCCATGCC  
CAAGTATAGCCGGCAGTTCTCCCTGGAGCAGCTCCACGGCTCGGGCCCCCTACTCGGCCCCCTCCCCAGCCTACAG  
CAGCTCCAGCCTCTACGCCCTGATGCTGTGGCCAGCTCTGGACCCATCATCTCCGACATACCGAGCTGGCTCC  
TGCCAGCCCCATGGCTCCCCCGGGGGAGCATAGACGAGAGGGCCCCATCCAGCAGCCCCCTGGTGCGTGTCAA  
GGAGGAGCCCCCAGCCCGCTCAGAGCCCCGGGTAGAGGAGGCGAGTCCCGGGCGCCCATCTTCCGTGGACAC  
CCTCTTGTCCCCGACCGCCCTCATTGACTCCATCCTGCGGGAGAGTGAACCTGCCCCCGCCTCCGTACAGCCCT  
CACGGACGCCAGGGGCCACACGGACACCGAGGGCCGGCTTCCTTCCCCCGCCACCTCCACCCATGAAAAGTG  
CTTCAGGGTAGCCTGCCTGGACAAGAATGAGCTCAGTGACCACTTGGATGCTATGGACTCCAACCTGGATAACCT  
GCAGACCATGCTGAGCAGCCACGGCTTCAGCGTGGACACCAGTGCCCTGCTGGACCTGTTAGCCCCCTCGGTGAC  
CGTGCCCGACATGAGCCTGCCTGACCTTGACAGCAGCTGGCCAGTATCCAAGAGCTCCTGTCTCCCCAGGAGCC  
CCCCAGGCCTCCCGAGGCAGAGAACAGCAGCCCGGATTGAGGGAAGCAGCTGGTGCACTACACAGCGCAGCCGCT  
GTTCTGCTGGACCCCGGCTCCGTGGACACCGGGAGCAACGACCTGCCGGTGCTGTTGAGCTGGGAGAGGGCTC  
CTACTTCTCCGAAGGGGACGGCTTCGCCGAGGACCCACCATCTCCCTGCTGACAGGCTCGGAGCCTCCCAAAGC  
CAAGGACCCCACTGTCTCCTAGAGGCCCCGGAGGAGCTGGGCCAGCCGCCACCCCAACCCCAAGTGAGGGCTG  
GTCTTGGGGAGGCAGGGCAGCCTCGCGGTCTTGGGCACTGGTGGGTGGCCGCCATAGCCCCAGTAGGACAAACG  
GGCTCGGGTCTGGGCAGCACCTCTGGTCAGGAGGGTCAACCCTGGCCTGCCAGTCTGCCTTCCCCCAACCCGCTGT  
CCTGTGGTTTGGTTGGGGCTTCACAGCCACACCTGGACTGACCCTGCAGGTTGTTATAGTCAGAAATGTATTTT  
GGATTTTTACACAACGTGTCCCGTTCGCCGCTCCACAGAGATACACAGATATATACACACAGTGGATGGACGGACA  
AGACAGGCAGAGATCTATAAACAGACAGGCTCT



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**FIGURE 2627**

GAAGCTCTGGGAAGGGGATGCCCCGAGGGTGCCAGTCCAGCTAGCTGCCCCACCCCTCAGGCCCAGCCTGGCCC  
CCAAGCTCCCCACTCTGGTGCCCCGAGCAGCCCTGTGGGCAAGCAGCCGCCGCGCATGGCCGAGCACCTGGAGCTG  
CTGGCAGAGATGCCCATGGTGGGCAGGATGAGCACACAGGAGCGGCTGAAGCATGCCCAGAAGCGGCGCGCCCAG  
CAGGTGAAGATGTGGGCCCAGGCTGAGAAGGAGGCCAGGGCAAGAAGGGTCCTGGGGAGCGTCCCCGGAAGGAG  
GCAGCCAGCCAAGGGCTCCTGAAGCAGGTCTCTTCCCTCCCAGTGTGTCTCTCTGGAGGCGCTGCCCGAAAT  
GACCTGGAAGAAGTCGCCAGTTCTTGGGAGTGGGGTCAGCCCTGACTTGGCCAACGAGGACGGCCTGACGGCC  
CTGCACCAAGTGTGATTGATGATTTCCGAGAGATGGTGCAGCAGCTCCTGGAGGCTGGGGCCAACATCAATGCC  
TGTGACAGTGAAGTGTGGACGCCTCTGCATGCTGCGGCCACCTGCGGCCACCTGCACCTGGTGGAGCTGCTCATC  
GCCAGTGGCGCCAATCTCTGGCGGTCAACACCGACGGGAACATGCCCTATGACCTGTGTGATGATGAGCAGACG  
CTGGACTGCCTGGAGACTGCCATGGCCGACCGTGGCATCACCCAGGACAGCATCGAGGCCGCCCGGGCCGTGCCA  
GAACTGCGCATGTGGACGACATCCGGAGCCGGCTGCAGGCCGGGGCAGACCTCCATGCCCCCTGGACCACGGG  
GCCACGCTGCTGCACGTGCGAGCCGCCAACGGGTTTCAGCGAGGCGGCTGCCCTGCTGCTGGAACACCGAGCCAGC  
CTGAGCGCTAAGGACCAAGACGGCTGGGAGCCGCTGCACGCCGCGGCCTACTGGGGCCAGGTGCCCCCTGGTGGAG  
CTGCTCGTGGCGCACGGGGCCGACCTGAACGCAAAAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
XXXGAGGTGCGGGCCAAGCTTCTGGAAGTGAACACAAGCACGACGCCCTCCTGCGCGCCAGAGCCGCCAGCGC  
TCCTTGCTGCGCCGCCGACCTCCAGCGCCGGCAGCCGCGGGAAGGTGGTGAGGCGGGTGAGCCTAACCCAGCGC  
ACCGACCTGTACCGCAAGCAGCAGCCCCAGGAGGCCATCGTGTGGCAACAGCCGCCGCCACCAGCCCGGAGCCG  
CCCAGGACAACGATGACCGCCAGACAGGCGCAGAGCTCAGGCCGCCGCCCGGAGGAGACAACCCCGAAGTG  
GTCAGGCCGCACAATGGCCGAGTAGGGGGCTCCCCAGTGGGCATCTATACTCCAAGCGACTAGACCGGAGTGT  
TCCTACCAGCTGAGCCCCCTGGACAGCACACCCCCACACCTGGTCCACGACAAGGCCACCACACCTGGCT  
GACCTGAAGCGCCAGCGAGCTGCTGCCAAGCTGCAGCGACCCCCACCTGAGGGGCCCCGAGAGCCCTGAGACAGCT  
GAGCCTGGCCTGCTTGGTGACACGGTGACCCCCCAGCCTGACTGTGGCTTCAGGGCAGGCGGGGACCCACCCCTG  
CTCAAGCTCACAGCCCCGGCGGTGGAGGCTCCCGTGGAGAGGAGGCCGTGCTGCCTGCTCATGTGAGGCTGTGTC  
TCAGCATGCAGGGGCCCTGTCTCGGGCACAGCCCAAGGCTGCCTCCCCACGGTGCCTGCCCTGGTGTGCGGGTG  
CAGCACGGAACCCCGGCTTCTACTGTACAGGACACTGGCCCTCTCAGGTGAGAAGACATGCCTGGAGGGATGT  
CTGGCTGCAAAGACTATTTTTATCCTGCAACTCTTGATAAAGGGCTGTTTGGCCATGG

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**FIGURE 2628**

GACCTGAAGCGCCAGCGAGCTGCTGCCAAGCTGCAGCGACCCCCACCTGAGGGGCCCCGAGAGCCCTGAGACAGCT  
GAGCCTGGCCTGCCTGGTGACACGGTGACCCCCCAGCCTGACTGTGGCTTCAGGGCAGGCGGGGACCCACCCCTG  
CTCAAGCTCACAGCCCCACGGTGCGTGCCTGGTGCTGCGGGTGCAGCACGGAAACCCGGCTTCTACTGTACAG  
GACACTGGCCCCTCTCAGGTCAGAAGACATGCCTGGAGGGATGTCTGGCTGCAAAGACTATTTTA

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**FIGURE 2629**

ATGGTCACCATGGAGCCCGGGTACCTGTTCTCGCTGGGCAATTCCTCCTCCTCAAGTACACGGAG  
AAGCTGCAGGAGCCCCGGCCAGTGCTGTCCGTGAGGCTGCCGACAAGGAAGAGCCTCCCTCAAAGAAGAAGCGA  
GTGGATGCGACGGCCGGCTGGTCAGCTGCGGGTAAGTCGGTGCCGAGGATGAGGTGGACGAGATTGAAGTGTAC  
GGCAGCGAGGCCCCAGTCGGGAACACAGCTGGCCACCTACTCCTTTGAGGTGTGTACAGCATCTGAACATTGGA  
CCCTGTGCCAATGCCGCCGTGGGCGAACCTGCCTTCCTCTCTAAAGAGTTTCAGAACAGCCCCGAGCCGGACCTG  
GAGATTGTGGTTTGCTCCGGCCACGGGAAGAACGGGGCTTTGTGGTGCTGCAGAAGAGCATCCGGCCCCAGGTG  
GTGACAACATTTGAGCTTCCCGGCTGCTATGACATGTGGACAGTCATCGCCCCGGTGCGTAAGGAGGAGGAGGAC  
AATCCCAAGGGGGAGGGCACAGAGCAGGAACCCAGCACCACCCCTGAAGCAGACGACGAGCCGCGCAGACACGGA  
TTCTTGATTCTGAGCCGGGAAGACTCCACCATGATCCTGCAGACGGGGCAGGAGATCATGGAGCTGGACACCAGT  
GGCTTCGCCACTCAGGGCCCCACGGTCTTTGCTGGGAACATCGGGGACAACCGCTACATTGTCCAAGTGTACCA  
CTGGGCATCCGCCTGCTGGAAGGAGTGAATCAGCTGCATTTCATCCCCGTGGACCTGGGCGCCCCCATCGTGCAG  
TGCGCCGTGGCCGACCCCTATGTGGTCATCATGAGTGCCGAGGGCCACGTACCATGTTCTGCTGAAGAGTGAC  
TCCTACGGTGGCCGCCACCACCGCTGGCGCTGCACAAGCCCCGCTGCACCATCAGTCCAAGGTGAATTACGCTG  
TGCCTGTACCGAGACCTCAGCGGCATGTTACCACTGAGAGCCGCCTGGGTGGGGCCCGTGACGAGCTCGGGGGC  
CGCAGTGCCCCGAGGGCCGAGGGCTGGGCTCAGAGACTAGCCCCACAGTGGATGACGAGGAGGAGATGCTGTAT  
GGGGATTGCGGCTCCCTCTCAGCCCCAGCAAGGAGGAGGCCGAAGAAGCAGCCAGCCCCCTGCTGACCGGGAC  
CCTGCACCCCTTCGGGCGAGCCCTACCCACTGGTGCCTGCTGGTGCGGGAGAATGGCACCATGGAGATCTACCAG  
CTTCCCGACTGGCGGCTGTTCTGTTGAAGAACTTCCTGTGGGGCAGCGGTCCTTGTGGACAGCTCCTTT  
GGACAGCCCACTACACAGGGCGAGGGCCGAGGGAGGAGGCCACGCGCCAGGGGGAGCTGCCCTCGTCAAGGAG  
GTGCTGCTGGTGCGCTGGGCAGCCGCCAGAGCAGGCCCTACCTGCTGGTGATGTGGACCAAGAGCTGCTTATC  
TACGAGGCCCTCCCCACGACTCTCAGCTCGGCCAGGGCAATCTCAAAGTCCGCTTTAAGAAGGTCCCTCACAAC  
ATCAACTTCCGTGAGAAGAAGCCAAAGCCATCCAAGAAGAAAGCAGAAGGTGGCGGCGCAGAGGAGGGGGCTGGG  
GCCCCGGGGCTCGTGGCGCGTTTTCCGCTACTTCGAGGATATTIATGGCTACTCAGGGGTCTTCATCTGCGGCCCC  
TCCCTCACTGGCTCTTGGTGACCGGCCGAGGGGCTCTGCGCTACACCCCATGGCCATCGACGCGCCGGTCGAC  
TCTTTCGCTCCATTCCACAATGTCAACTGTCCCCGCGGCTTCTGTACTTCAACAGACAGGGCGAGCTGAGGATC  
AGTGTCTGCTGCCTACCTGTCTATGATGCCCCATGGCCTGTGAGGAAGATCCCGCAGCGTTGCACGGCCCCAC  
TATGTGGCTTACCACGTGGAGTTTAAGGTGTATGCTGTGGCCACCAGCACCAACACGCCGTGTGCCCCGATCCCA  
CGCATGACTGGCGAGGAGAAGGAGTTTGAGACCATCGAGAGAGATGAGCGGTACATCCACCCCAAGCAGGAGGCC  
TTCTCCATCCAGCTCATCTCCCCGCTCAGCTGGGAGGCTATTCCCAATGCCAGGATCGAGCTGCAGGAGTGGGAG  
CATGTGACCTGCATGAAGACAGTGTCTCTGCGCAGTGAGGAGACCGTGTGCGGCCTCAAAGGCTACGTGGCCGCC  
GGGACCTGCCTCATGCAGGGGGAGGAGGTACGCTGCCGAGGGCGGATCTTGATCATGGATGTGATTGAGGTGGTG  
CCCGAGCCTGGCCAGCCCTTGACCAAGAACAAGTTCAAAGTCCCTTTACGAGAAGGAGCAGAAGGGGCCCCGTGACC  
GCCCCTGTGCCACTGCAATGGCCACCTGGTGTGCGCCATCGGCCAGAAGATTTTCTGTGGAGCTGCGGGCCAGC  
GAGCTGACGGGCATGGCCTTCATCGACACGCAGCTCTACATACACCAGATGATCAGCGTCAAGAACTTCATCCTG  
GCAGCCGACGTATGAAGAGCATTTGCTGCTGCGCTACCAGGAGGAAAGCAAGACGCTGAGCCTGGTGTGCGGG  
GATGCCAAGCCCCCTGGAGGTGTACAGCGTGGACTTCATGGTGGACAATGCCAGCTGGGTTTTCTGGTGTCTGAC  
CGCGACCGCAACCTCATGGTGTACATGTACCTGCCCGAAGCCAAGGAGAGTTTCGGGGGATGCGCCTGCTGCGT  
CGGGCAGACTTCCACGTGGGTGCCACGTGAACACGTTTTGGAGGACCCCGTGCCGGGGGGGCACTGAAGGGCTC  
AGCAAAAAGTCGGTCTGTGGGAGAATAAGCACATCACGTGGTTTGCCACCCCTGGACGGCGGCATCGGGCTGCTG  
CTGCCCATGCAGGAGAAGACCTACCGGCGGCTGCTGATGCTGCAGAACGCGCTGACCACCATGCTGCCACACCAC  
GCCGGCCTCAACCCCGCGCCTTCCGGATGCTGCACGTGGACCGCCGACCCCTCCAGAATGCCGTGCGCAACGTG  
CTGGATGGGGAGCTGCTCAACCGCTACCTGTACCTGAGCACCATGGAGCGCAGCGAGGTAGCCAAGAAGATCGGC  
ACCACACCAGACATAATCCTGGACGACTTGCTGGAGACGGACCGCGTCACCGCCCACTTCTAGCCCCGTGGATGC  
CGTCACCACCAGCACACGGAACCTACCTCCACCCCTTTTTGTACAAAACACAAGGAAAAACATTTTTTGC

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**FIGURE 2630**

MYAVYKQAHPPPTGLEFSMYCNFFNNSERNLVVAGTSQLYVYRLNRDAEALTKNDRSTEGKAHREKLELAASF SFF  
GNVMSMASVQLAGAKRDALLLSFKDAKLSVVEYDPGTHDLKTL SLHYFEEPELRDGFVQNVHTPRVRVDPDGRCA  
AMLVYGTRLVVL PFRRESLAEHEGLVGEQGRSSFLPSYIIDVRALDEKLLNIIDLQFLHGYEPTLLILFEPNQ  
TWPGRVAVRQDTC SIVAI SLNITQKVHPVIWSLTS LFPDCTQALAVPKPIGGVVVFVAVNSLLYLNQSVPPYGVAL  
NSLTGTGTAFLRTQEGVRITLDCAQATFISYDKMVISLKGGEIYVLTITDGMRSVRAFHFDKAAASVLTSMV  
TMEPGYLFLGSR L GNSLLLKYTEKLQEP PASAVREAADKEEPPSKKKRVDATAGWSAAGKSV PQDEVDEIEVYGS  
EAQSGTQLATYSFEVCD SILNIGPCANAAVGEP AFLSKEFQNSPEPDLEIVVCSGHGKNGALS VLQKSIRPQVVT  
TFELPGCYDMWTVIAPVRKEEDNPKGEGTEQEPSTTPEADDDGRRHGFLILSREDSTMILQTGQEIMELDTSGF  
ATQGPTVFAGNIGDNRYIVQVSPLGIRLLEGVNQLHFIPVDLGAPIVQCAVADPYVVMISAEGHVTMFLKSDSY  
GGRHHR LALHKPPLHHQSKVITLCLYRDL SGMFTTESRLGGARDELGGRSGPEAEGLGSETSP TVDDEEEMLYGD  
SGSLFSPSKEEARSSQPPADRD PAPFRAEP THWCLLVRENGTMEIYQLPDWRLVFLVKNFPV GQ RVLVDSSFGQ  
PTTQGEARREEATROGELPLVKEVLLVALGSRQSRPYLLVHVDQELLIYEAFPHDSQLGQGNLKVRFKKVPHNIN  
FREKKPKPSKKKAEGGGAEAGARGLVARFRYFEDIYGYSGVFI CGPSPHWLLVTGRGALRLHPMAIDGPFVDSF  
APFHNVCPRGFLYFNROGELRISVLPAYLSYDAPWPVRKIPQRCTAHYVAYHVEFKVYAVATSTNTPCARIPRM  
TGEEKEFETIERDERYIHPQQEAFSIQLISPVSWEAIPNARIELQEW EHVTCMKT VSLRSEETVSGLKGYVAAGT  
CLMQGEEVTCRGRILIMDVIEVVPEPGQPLTKNKFVLYEKEQKGPVTALCHCNGHLVSAIGQKIFLWSLRASEL  
TGMAFIDTQLYIHQMISVKNFILAADVMKSI SLLRYQEESKTL SLVSRDAKPLEVYSVDFMVDNAQLGFLVSDRD  
RNLVMVYMLPEAKESFGGMRLRRADFHVGAHVNTFWRTPCRGATEGLSKKS VVWENKHITWFATLDGGIGLLLP  
MQEKT YRRLMLQNALTTMLPHHAGLNPRAFRMLHVD RRTLQNAVRNVLDGELLNRYLYLSTMERSEVAKKIGTT  
PDIILDDLLETDRVTAHF

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**FIGURE 2631**

AATGGACGAGAGAGGCGGCGCTCCATTAGTTAGCGGCTCCGGAGCAACGCAGCCGTTGTCCTTGAGGCCGACGGG  
CCTGACGCGGGCGGGTTGAACGCGCTGGTGAGGCGGTACCCGGGCTACGGCGGCCGGCAGGGGGCAGTGGCGGC  
CGTTGTCTAGGGCCCGGAGGTGGGGCCGCGCGCTCGGGCGCTACGAACCCGGCAGGCCCCACGCTTGGCTGCGGC  
CGGGTGCGGGCTGAGGCCATGGCGGACCGCGGCAGCTCCCGCGCCGGAGGACAGGGTCGCGGCCCTCGAGCCAC  
GGCGCGCGGGGCTGCGGCGCGGAAGAGGAGGTGCGGGACGCCGCTGCGGGCCCCGACGTGGGAGCCGCGGGG  
GACGCGCCAGCCCCGGCCCCCAACAAGGACGGAGACGCCGGCGTGGGCAGCGGCCACTGGGAGCTGAGGTGCCAT  
CGCCTGCAGGATTCTTTATTTCAGCTCTGACAGTGGCTTCAGCAACTACCGTGGCATCCTGAACTGGTGTGTGGTG  
ATGCTGATCTTGAGCAATGCCCGGTTATTTCTGGAGAACCTCATCAAGTATGGCATCCTGGTGGACCCCATCCAG  
GTGGTTTCTCTGTTCTGAAGGATCCCTATAGCTGGCCCGCCCCATGCCTGGTTATTGCGGCCAATGCTTTGCT  
GTGGCTGCATTCCAGGTTGAGAAGCGCCTGGCGGTGGGTGCCCTGACGGAGCAGGCGGGACTGCTGCTGCACGTG  
GCCAACCTGGCCACCATTCTGTGTTTCCCAGCGGCTGTGGTCTTACTGGTTGAGTCTATCACTCCAGTGGGCTCC  
CTGCTGGCGCTGATGGCGCACACCATCCTCTTCTCAAGCTCTTCTCCTACCGCGACGTCAACTCATGGTGCCGC  
AGGGCCAGGGCCAAGGCTGCCTCTGCAGGGAAGAAGGCCAGCAGTGTGCTGCCCCGCACACCGTGAGTACCCG  
GACAATCTGACCTACCGCGATCTCTACTACTTCTCTTCGCCCCACCTTGTGCTACGAGCTCAACTTTCCCCGC  
TCTCCCCGCATCCGGAAGCGCTTCTGCTGCGACGGATCCTTGAGATGCTGTTCTTACCCAGCTCCAGGTGGGG  
CTGATCCAGCAGTGGATGGTCCCCACCATCCAGAACTCCATGAAGCCCTTCAAGGACATGGACTACTCAGCATC  
ATCGAGCGCCTCCTGAAGCTGGCGGTCCCCAATCACCTCATCTGGCTCATCTTCTTCTACTGGCTCTTCCACTCC  
TGCCTGAATGCCGTGGCTGAGCTCATGCAGTTTGAGAGACCGGGAGTCTACCGGGACTGGTGGAATCCGAGTCT  
GTCACCTACTTCTGGCAGAACTGGAACATCCCTGTGCACAAGTGGTGCATCAGACACTTCTACAAGCCCATGCTT  
CGACGGGGCAGCAGCAAGTGGATGGCCAGGACAGGGGTGTTCCCTGGCCTCGGCCTTCTTCCACGAGTACCTGGTG  
AGCGTCCCTCTGCGAATGTTCCGCCTCTGGGCGTTCACGGGCATGATGGCTCAGATCCCCTGGCCTGGTTCGTG  
GGCCGCTTTTTCCAGGGCAACTATGGCAACGCAGCTGTGTGGCTGTGCTCATCATCGGACAGCCAATAGCCGTC  
CTCATGTACGTCCACGACTACTACGTGCTCAACTATGAGGCCCCAGCGGCAGAGGCCTGAGCTGCACCTGAGGGC  
CTGGCTTCTCACTGCCACCTCACACCCGCTGCCAGAGCCCACCTCTCCTCCTAGGCCTCGAGTGCTGGGGATGGG  
CCTGGCTGCACAGCATCCTCCTTGGTCCCAGGGAGGCCTCTCTGCCCCATAGGGGCTCTGTCTGCACCCCTCA  
GGGATGGCGACAGCAGGCCAGACACAGTCTGATGCCAGCTGGGAGTCTTGCTGACCCTGCCCCGGGTCCGAGGGT  
GTCAATAAAGTGCTGTCCAGTG

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**FIGURE 2632**

MGDRGSSRRRTGSRPSSHGGGGPAAAEVVRDAAAGPDVGAAGDAPAPAPNKG DAGVGSGHWELRCHRLQDSL  
FSSDSGF\$NYRGILNWCVMILISNARLFLENLIKYGILVDPIQVVSFLKDPYSWPAPCLVIAANVFVAAFQV  
EKRLAVGALTEQAGLLLVANLATILCFPAAVLLVESITPVGSLLALMAHTILFLKLSYRDVNSWCRRARAKA  
ASAGKKASSAAAPHTVSYPDNLTYRDLYYFLFAPTLCYELNFPSPRIRKRFLRRILEMLFFTQLQVGLIQQWM  
VPTIQNSMKPFKMDYSRIERLLKLAVPNHLIWLIFFYWLFHSCINAVAELMQFGDREFYRDWWNSESVTYFWQ  
NWNIPVHKWCIRHFYKPLRRGSSKWMARTGVFLASAFFHEYLSVPLRMFRLWAF TGMMAQIPLAWFVGRFFQG  
NYGNAAVWLSLIIGQPIAVLMYVHDYYVLN YEAPAAEA .

[illegible]

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**FIGURE 2634**

MGRVIRGQRKGAGSVFRAHVKHRKGAARLRAVDFAERHGYIKGIVKDIHDPGRGAPLAKVVFRDPYRFKKRTEL  
FIAAEGIHTGQFVYCGKKAQLNIGNVLPVGTMPGEGTIVCCLEEKPGDRGKLARASGNYATVISHNPETKKTRVKL  
PSGSKKVISSANRAVVGVVAGGGRIDKPILKAGRAYHKYKAKRNCWPRVRGVAMNPVEHPFGGNGHQHIGKPSTI  
RRDAPAGRKVGLIAARRTGRLRGTKTVQEKEN



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**FIGURE 2635**

GCGGCATGGGCAGTATCCGCCGCCATCCTCTTCCGTGAGGCGCGCTGAGACCCGGACCGGCCCTCCTGAGAGGAT  
GCCGGTGCGGGCGCCCGCGGAGAGGGACCCGTCGCCATGGGCCGTGTGATCCGTGGACAGAGGAAGGGCGCCGGG  
TCTGTGTTCCGCGCGCACGTGAAGCACCGTAAAGGCGCTGCGCGCCTGCGCGCCGTGGATTTGCTGAGCGGCAC  
GGCTACATCAAGGGCATCGTCAAGGACATCATCCACGACCCGGGCGCGCGCCCCCTCGCCAAGGTGGTCTTC  
CGGGATCCGTATCGGTTTAAAGAAGCGGACGGAGCTGTTCAATTGCCGCCGAGGGCATTACACGGGCCAGTTTGTG  
TATTGCGCAAGAAGGCCAGCTCAACATTGGCAATGTGCTCCCTGTGGGCACCATGCCTGAGGGTACAATCGTG  
TGCTGCCTGGAGGAGAAGCCTGGAGACCGTGGCAAGCTGGCCCGGGCATCAGGGAACATGCCACCGTTATCTCC  
CACAACCCTGAGACCAAGAAGACCCGTGTGAAGCTGCCCTCCGGCTCCAAGAAGGTTATCTCCTCAGCCAACAGA  
GCTGTGGTTGGTGTGGTGGCTGGAGGTGGCCGAATTGACAAACCCATCTTGAAGGCTGGCCGGGCGTACCACAAA  
TATAAGGCAAAGAGGAACCTGCTGGCCACGAGTACGGGGTGTGGCCATGAATCCTGTGGAGCATCCTTTTGGAGGT  
GGCAACCACCAGCACATCGGCAAGCCCTCCACCATCCGCAGAGATGCCCTGCTGGCCGCAAAGTGGGTCTCATT  
GCTGCCCCCGGACTGGACGTCTCCGGGGAACCAAGACTGTGCAGGAGAAAGAGAACTAGTGCTGAGGGCCTCAA  
TAAAGTTTGTGTTTATGCCAAA

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**FIGURE 2636**

MGRVIRGQRKGAGSVFRAHVKHRKGAARLRAVDFAERHGYIKGIVKDIIHDPGRGAPLAKVVFRDPYRFKKRTEL  
FIAAEGIHTGQFVYCGKKAQLNIGNVLPVGTMPGTVCCLEEKPGDRGKLARASGNYATVISHNPETKKTRVKL  
PSGSKKVISSANRAVGVVAGGGRIDKPIKAGRAYHKYKAKRNCWPRVRGVAMNPVEHPFGGNGHQHIGKPSTI  
RRDAPAGRKVGLIAARRTGRLRGTKTVQEKEN

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**FIGURE 2637**

CTGTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCTGCGGCCAC  
GTGCAGCCTATTCGCTGCACTAACTGTGCCCAGTCATGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTCTGA  
AACATAGTGGAGGCCGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCAAGCTG  
TATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGTCCGC  
AAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGA  
GCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 2638

TTTTCTGGGGGCAGCAGCCGGGCTGAGAGGAGAGTGGCTGTCTACTCTCTCCGCCATGGCGTGTGTCCGCCAC  
TGATGTCGCTGTACTCCGAAAAGGGGGAGTCATCTGGCAAAAATGTCACCTTAGCCCGCTGTATTCAAGGCTCCTA  
TTCGACCAGACATCGTGAACTTTGTTACACCAACTTGCACAAAAACAACAGACAGCCCTACGCTGCCAGTGAAT  
TAGCAGGTCAATCGGACCAGCACTGAGTCTTGGGGTACTGGCAGAGCTGTGGCTCGAATTCCCAGAGTTTCGAGGTG  
GTGGGACTCACCGCTCCGGCCAGGGTGCTTTTGGAAACATGTGTCGTGGAGGCCGAAGGTTTGACCAACCAAAA  
CCTGGCGCCGTTGGCATCGTAGAGTGAACACAACCCAAAAACGGTATGCCATCTGTTCTGCCCTGGCTGCCTCAG  
CCCTACCAGCACTGGTCATGTCTAAAGGTCATCGTATTGAGGAAGTTCTGAACTTCCTTTGGTAGTGAAGATA  
AAGTTGAAGGCTACAGGAAGACCAAGGAAGCTGTTTGTCTCCTTAAGAACTTAAAGCCAGGAACGATATCAAAA  
AGGTCTATGCCTCTCAGCGAATGAGAGCTGGCAAAGGCAAAATGAGAAACCGTCGCCGTATCCAGCGCAGGGGCC  
CGTGCATCATCTATAATGAGGATAATGGTATCAAGGCCTTCAGAAACATCCCTGCAATTACTCTGCTTAATGTAA  
GCAAGCTGACCATTTTGAAGCTTGCTCCTGGTGGGCACGTGGGACGTTTCTGCATTGGACTGGAAGTGCTTTCC  
GGAAGTTGGATGAATTGTATGGCACTTGGCGTAAAGCCGCTTCCCTCAAGAGTAACTACAATCTTCCCATGCACA  
AGATGATTAATACAGATCTTAGCAGAATCTTGAAAAGCCCAGAGATCCAAAGAGCCTTTCGGGCACCAAGCAAGA  
AGATTCATCGCAGAGTCTTAAAGAAGAACCCACTGAAAACTTGAGAATCATGTTGAAGCTAAACCCATATGCAA  
AGACCATGCGCCGGAACACCATTTCTCGCCAGGCCAGGAATCACAAGCTCCGGATGGATAAGGCAGCTGCTGCTG  
CAGCAGCACTAGAAGCCAAACCAGATGAGAAGCGCGGTTGCAGGCAAGAAGCCTGTGGTAGGTAAGAAAGGAA  
AGAAGGCTGCTGTTGGTGTGAAGAAGCAGAAGAAGCCTCTGGTGGGAAAAAAGGCAGCAGCTACCAAGAAATCAG  
CCCCTGAAAAGAAGCCTGCAGAAAAGAAACCTACTGTAGAGGAAAAGAAGCCTGCTGCATTAACCTTTAAATTTG  
ATTATTCCATAAAGGTCAAATCATTGTGGACAGCTTCTTTGAATAAAGACCTGATTATACAGGCAGTGAGAAAC  
A

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**FIGURE 2639**

MCRGGRRFAPTKTWRRWHRRVNTTQKRYAICSALAASALPALVMSKGHRIEEVPPELPLVVEDKVEGYRKTKEAVL  
LLKKLKARNDIKKVYASQRM RAGKGKMRNRRRIQRRGPCIIYNEDNGIKAFRNIPAITLLNVSKLTISKLPGGH  
VGRFCIWTGSAFRKLDELYGTWRKAASLKSNNLPMHKMINTDLSRILKSPETQRAFRAPSKKIHRRLKKNPLK  
NLRIMLKLNPYAKTMRNTILRQARNHKL RMDKAAAAAAAEAKPDEKAAVAGKKPVVGKKGKKAAGVKKQKKP  
LVGKKAATKKSAPKPAEKKPTVEKKPAALTLKFDYSIKVKS LWTASFE

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**FIGURE 2640**

CTGAGTCTTGGGGTACTGGCAGAGCTGTGGCTCGAATTCCCAGAGTTCGAGGTGGTGGGACTCACCGCTCCGGCC  
AGGGTGCTTTTGGAAACATGTGTCGTGGAGGCCGAAGGTTTGACCAACCAAAACCTGGCGCCGTTGGCATCGTA  
GAGTGAACACAACCCAAAAACGGTATGCCATCTGTTCTGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGT  
CTAAAGGTCATCGTATTGAGGAAGTTCCTGAACTTCCTTGGTAGTCGAAGATAAAGTTGAAGGCTACAGGAAGA  
CCAAGGAAGCTGTTTTGCTCCTTAAGAAATCAGCCCCTGAAAAGAAGCCTGCAGAAAAGAAACCTACTGTAGAGG  
AAAAGAAGCCTGCTGCATTAACTCTTAAATTTGATTATTCCATAAAGGTCAAATCATTGTGGACAGCTTCTTTTG  
AATAAAGACCTGATTATACAGGCAGTGAG

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**FIGURE 2641**

AGAGCTGTGGCTCGAATFCCCAGAGTTCGAGGTGGTGGGACTCACCGCTCCGGCCAGGGTGCTTTTGGAACATG  
TGTCGTGGAGGCCGAAGGTTTGCACCAACCAAAACCTGGCGCCGTTGGCATCGTAGAGTGAACACAACCCAAAA  
CGGTATGCCATCTGTTCTGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGTCTAAAGGTCATCGTATTGAG  
GAAGTTCCTGAACTTCCTTTGGTAGTCGAAGATAAAGTTGAAGGCTACAGGAAGACCAAGGAAGCTGTTTTGCTC  
CTTAAGAACTTAAAGCCAGGAACGATATCAAAAAGGCAGCAGCTACCAAGAAATCAGCCCCTGAAAAGAAGCCT  
GCAGAAAAGAAACCTACTGTAGAGGAAAAGAAGCCTGCTGCATTAACCTTAAATTTGATTATTCCATAAAGGTC  
AAATCATTGTGGACAGCTTCCTTTGAATAAAGACCTGATTATACAGGC

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FIGURE 2642

AGTGGCGGTGCTGTGATGGTCCGGAGCGAGGCCCTCGGCCAATCTGGGTGGCGTGCCCAGCGAGATTAAAGATGC  
AGTACGCCACGGGGCCACTGCTCAAGTTCCAGATTGTGTTTTCTGAGGTTATAGGCGGGTGTGAGGAGTACA  
TGTGGGTTACTAGCCAGGGGTACCCAGACATCCGTATTGAAGGAGAGAATTACCTCCCTCAACCAATGTATAGAC  
ACATAGCATCTTCTGTGTCAGTCTTCAAACCTAGTATTAATAGGCTTAATAATTGTGGCAAGGATCCTTTTGCTT  
TCTTTGGCATGCAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTCTATGCATGTATGATGGTTTTCT  
TCTTGAGCAACATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGT  
GGTCTAAGCTGGAATCCGGTCACCTTCCATCCATGCAACAGCTTGTTCAAATCTTGACAATGAAATGAAGCTCA  
ATGTGCATATGGATTCAATCCACACCATCGATCATAGCACCACCTATCAGCACTGAAAACCTTTTTGCATTAAG  
GGATCATTCCAAGAGCAGCTTGACTGACATTATGAAGGCCTGTACTGAAGAGAGCAAGCTGTTAGTACAGACCAA  
ATGCTTTCTTAGCATGCTCGTTGTACCTCTTGAAAAACCTCAATGCAAGATAGCTTTCCGTGCTGGCATATTTT  
GGAATTCCTCACATTCATGGAGTGCAATAATACTGTATAGCTTTCCCCACCCCCACACAATCACCAGTTAATG  
TGTGTTTTTTTTTAAGGTAGACATTACTACTTGTAACTTTTTTCCTTAGTCGTATTGAAAAAGTAGAAAATTGA  
GTTACAATTTGATTTTTTTTCCAAAGATGTCTGTAAATCTGTTGTGCTTTTATATGAATATTTGTTTTTTATAG  
TTTAAATTCATCCTTTGGGAATCCAGTTGAAGTTCCCAAATACTTTATAAGAGTTATCAGACATCTCTAATTT  
GGCCATGTCCAGTTTATATAGTTTACAAAATACAGCAGATGCAAGATTATGGGGGAAATCCTATATTCAGAGTAC  
TCTACAAATTTTGTGTATGTGTGTATGTGCGTGTGATTACCAGAGAACTACTAAAAAACCACTGCTTTTTAA  
ATCCTATTGTGTAGTTCAAGTGTATGCCTTGACCAATCTAATGAATTGATTAATTAAGTGGGCCTTTATACTTA  
ACTAAATAAAAACTAAGCAGATATGAGTT



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**FIGURE 2643**

CSTPRGHCSSSRFVFPEGYRRVFEEYMWVTSQGYPDIRIEGENYLPQPMYRHIAFSLSVFKLVLIIGLIIVGKDPF  
AFFGMQAPSIWQWGQENKVYACMMVFFLSNMIENQCMSTGAFEITLNDVPVWSKLESGHLPSMQQLVQILDNEMK  
LNVHMDSIPHRS

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**FIGURE 2644**

AGTGGCGGTGTCGTGATGGTCCGGAGCGAGGCCTCGGCCAATCTGGGTGGCGTGCCAGCGAGATTAAAGATGC  
AGTACGCCACGGGGCCACTGCTCAAGTTCCAGATTGTGTTTCTGAGGTTATAGGCGGGTGTTTGAGGAGTACA  
TGTGGGTTACTAGCCAGGGGTACCCAGACATCCGTATTGAAGGAGAGAATTACCTCCCTCAACCAATGTATAGAC  
ACATAGCATCTTCTGTGAGTCTCAAACCTAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTT  
TCTTTGGCATGCAAGCTCCTAGCATCTGGCAGTGGGGCCAAGACCAGTGTATGTCAACAGGTGCATTTGAGATAA  
CTTTAAATGATGTACCTGTGTGGTCTAAGCTGGAATCCGGTCACCTTCCATCCATGCAACAGCTTGTTCAAATTC  
TTGACAATGAAATGAAGCTCAATGTGCATATGGATTCAATCCACACCATCGATCATAGCACCACCT

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**FIGURE 2645**

GGGAGATTAAACCTTGGATTCTAGGTGGTAGAGGATAATTTTTTTTTGAATGAATTTCTTTTTATTATTTATT  
TATTTTTTTCCTTTTTAGGATAGAATTTTTGCGGCATTTGAAGAGCTTTTTCCAGATTATGTTTAAATTTGAAAC  
CAAGCCATGTGGTGAAGAACTCAAGGGTGGGGATAAAGTGCTGATGACCTGTGTTGGCATTGGTTTCTCCAACCT  
TAGCAAGACCCTCAAGTGATAACCATCACAAGATAAGGCCCAATGCCTACAGACAAAGCAGAAGCTGCCACGGA  
CACCAATGGGACCAAGTCCAAATGGATTAATCCAGGACAGAATAGCCACTTGCTTAATTTTCTGTGAAGAAATAT  
CAATATACAAATAAAAGACATCCCTGTAGCATATGGTTTCCAGCTGTTTCTCCAGTGGCATTGCCATTGCCCAGG  
AGGGGGCCAGTCACCATGAGAGCTCCCTTGCCTTACCTGGAGGAAGAATGTGCCTTCAGGCCACAGTCGTGCTGC  
TAGAACAGTCTCGTAGCTGCAGTTCAGCTGTGCTTCCCTCAGCCTACTATCATAGGCTTCTCAGCCCTCTGTCTAT  
ATGGCTGTTTTGCAAACCTGTGGAGTCTGTTACTGTTCTTTCTGCAAGGACTCACCTCCTTGAGCCTTGTTTTT  
GTTGTAGGGATTAAATGAGATAATATGAGTGGCAGCTCTTCATGAGTCCTGCAGTGCTAAGCAAATGTCAGAAAT  
TGGTGTATTAGACTATTTATCTTTGATCTTCTGAATGGATTGCTGTCTATGGACACGGACACGGATCTTCATCTGG  
TTCATTGTATTTATATGTGAGGGATGGATGGCTGCGGGCTCCAAGAGCAGCCTCCTGAAGTGAGGGTGGCAAGT  
ATGTGACAGGGCACCCACAAGGCAGACAAGGACTCTGAGAACCAACAGGACTTCTCTGGTCTTATTCTGAGGCT  
AAGACAAAACCGCACCTGAGCCAGATCTCTCAGCCTGGCAGCTCCAGGACCCGTGGGGCCCTGCCACTGGCCCAT  
CTCAACGGCTAGGACCTAGAGCATCATCAAGCTGCAGGTTAAACAGGTTGGTTGGTTCTGATTGACTGCACCTC  
TACAAGGACCTATGGCTGCACTTGTTGATACTTTCCCGAGGAGCCACAACACTGAGCAATGAGGGGAGGAGCATG  
TGTTAGTTCATTTCATCAAGTCCTAAATGTTAACTACTATGTGCCAGGTGCTGAGCCAGGCACCAGAGATACCATG  
ATGAACAAGACACATAAATCTTACCCTCATTGAGCTTACACCATGTGAAAGAGAAGTATGAAATAATTATACGTT  
ATTTTTTTTTAGTTTTTGGATGGAGTTTCACTTTTGTCCCCCAGGCTGGAGTGCGGTGGTGTGACCTCAGCTCA  
CTGCAACCTCTGCCTCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTG  
CCACCATGCCTGGCTAAATTTTGTATTTTAGTAGAGACGGGCTTTCACCATGTTGGTCAGGCTAGTCTTGAAC  
CCTGGCCTCAGGIGATCCTCCACCTTGGCCTCCCAAAGTGCTGGGATTGCAGGCGTGAGCCACGGCACCTCACA  
AATTACACATTATTCAACTGTAACTGTGAAAGTGATTCTAAGGAAAAAGTACAGAGAGCTGTGGGAAAACATAAT  
AGGAAATCTTTGTCACTTCTGTCACTATTGTCTATTAGGCTGTCACTGTTGTCTATTGTACCCCTACCCTCTCGCA  
GAGAGTGGTTCCCATTTGCCAGAGCTCAATTTATTGTCTGAAGGTCTGTGAAAAGATGACAAAGTCGTGTTGCCT  
TCTTTCCACTTTCCCAAGTCTCACGTGAGCACCCCTAACTGGCAGAATCAATTCACACCCACAAGCCTAGCTGCA  
AGGGGACCTGGGAAATGTATTCCAGCTTCCAACCTCTCCACCCAGGAGATGAAACAGCCAATTTAGGCCAGGT  
GCAATGGCTTACACATGTAAAACCAGCACTATGGGAGGCTGAGGAGGGAAGATTACTTGAGCCAGGAGTTTGAG  
ACCAGCCTGGACAACAGGGCGAGACCATCATCTCTACAAAAAATACAAAAAAATTAGCTAGGCGTGGTGTCTCTG  
TGCTGTGGTCCCAGCTCCTCAGGAGGCTGAGGCAGGAGGATCGCTTGAGATCGAGGCTGCAGTGAGCCGTGATC  
GCGCCACTGCACTCCAGTCTGGGTGACAGCGAGACCTATCTCAAAAAAG

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**FIGURE 2646**

CTCAGCTACGCAGGGTGCAACTTCTTGCGCCAACGTCTGGTCCTGTCTACCCTGAGCGGGCGCCCCGTCAAATC  
CGAAAGATTCGGGCCAGAGACGACAACCCGGGCCTCCGAGATTTGAAGCCAGCTTCATAAGGCTATTGGACAAA  
ATAACGAATGGTTCTCGAATTGAAATAAACCAAACAGGAACAACCTTATATTATCAGCCTGGCCTCCTGTATGGT  
GGATCTGTGGAACATGACTGTAGCGTCCTTCGTGGCATTGGGTATTACCTGGAGAGTCTTCTTTGCTTGGCTCCA  
TTTATGAAGCACCCGTTAAAAATAGTTCTACGAGGAGTGACCAATGATCAGGTTGACCCTTCAGTTGATGTTCTT  
AAGGCAACAGCACTCCCTTTGTTGAAACAATTGGGATTGATGGTGAATCATTGAACTGAAGATTGTGCGACGG  
GGAATGCCTCCCGGAGGAGGAGGCGAAGTGGTTTCTCATGTCTGTGAGGAAGGTCTTGAAGCCCATTCAACTC  
ACAGATCCAGGAAAAATCAAACGTATTAGAGGAATGGCGTACTCTGTACGTGTGTACCTCAGATGGCGAACCGG  
ATTGTGGATTCTGCAAGGAGCATCTCAACAAGTTCATACCTGATATCTATATTTACACAGATCACATGAAAGGA  
GTCAACTCTGGGAAGTCTCCGGGCTTTGGGTTGTCACTGGTTGCTGAGACCACCACTGGCACCTTCCTCAGTGCT  
GAACTGGCCTCCAACCCCCAGGGCCAGGGAGCAGCAGTACTTCCAGAGGACCTTGGCAGGAAGTGTGCCCGGCTG  
CTGCTGGAGGAAATCTACAGGGGTGGATGCGTAGACTCGACCAACCAAAGCCTGGCGCTACTACTCATGACCCTT  
GGACAGCAGGATGTTTCCAAAGTCTCTGCTAGGCCCTCTCTCTCCCTACACGATAGAATTTTTCGGGCATTGGAAG  
AGCTTTTTCCAGATTATGTTTAAATTTGAAACCAAGCCATGTGGTGAAGAACTCAAGGGTGGGGATAAAGTGCTG  
ATGACCTGTGTTGGCATTGGTTTCTCCAACCTTAGCAAGACCCTCAAGTGATAACCATCACAAAGATAAGGCCCCA  
ATGCCTACAGACAAAGCAGAAGCTGCCACGGACACCAATGGGACCAAGTCCAAATGGATTAATCCAGGACAGAAT  
AGCCACTTGCTTAATTTTCTGTGAAGAAATATCAATATACAAATAAAAGACATCCCTGTAGCATATGGTTTCCAG  
CTGTTTCTCCAGTGGCATTGCCATTGCCCAGGAGGGGCCAGTCAACCATGAGAGCTCCCTTGCCCTTACCTGGAGG  
AAGAATGTGCCTTCAGGCCACAGTCGTGCTGTAGAACAGTCTCGTAGCTGCAGTTCAGCTGTGCTTCTCAGCC  
TACTATCATAGGCTTTCCTCAGCCCTCTGTCTATATGGCTGTTTTGCAAACCTGTGGAGTCTGTTACTGTTCTTTCT  
GCAAGGACTCACCTCCTTGAGCCTTGGTTTTTGTGTAGGGATTAAATGAGATAATATGAGTGGCAGCTCTTCAT  
GAGTCCTGCAGTGCTAAGCAAATGTCAGAAATTGGTGTATTAGACTATTTATCTTTGATCTTCTGAATGGATTGC  
TGTCATGGACACGGACACGGATCTTCATCTGGTTCATTGTATTTATATGTGAGGGATGGATGGCTGCGGGGCTCC  
AAGTAAGTTATTGGGATGTTTTATATTCCAGGTGTGCTGTACATTCTTATTTTATTTTACAAATAGCTCTGTGA  
TGTAAGTGCTATCTCCATGAGAAAAATTCATAAAGGGTGTGTTTGTTCCTTTGAAATGTATAATGTAAAGACATTAA  
ATCTCCTCATTTA

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**FIGURE 2647**

CGCCGCAGCTCCAGCGCCGCGCAGCAGCCGCCGCCGCCCTCTCCTTAGTCACTGCCATGACGACCGCGTCCAC  
CTCGCAGGTGCGCCAGAACTACCACCAGGACTCAGAGGCCGCCATCAACCGCCAGATCAACCTGGAGCTCTACAC  
CTCCTACCTTTACCTGTCCACGTCTTACTACTTTGACCTCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTT  
TCTTCACCAATCTCATGAGGAGAGGGAACATGCTGAGAACTGTTGAAGCTGCAGAACCAACGAGGTGGCCGAAT  
CCTTCTTCAGGATATCAAGAAACCAGACTGTGATGACTGGGAGAGTGGGCTGAATGCGATGGAGTGTGCACTACA  
TTTGAAAAAAATGTGTATCAGTCACCACTGGAAGTGCACAAACCGGCCACTGACAAAAATGCCATCAAAGAATG  
GGGTGACCACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTTGGCAGAATATCTCTTTGACAAGCA  
CTCCCTGGGAGACAGTGATAATGAAAGCTTAAGCCTCAGGCTAATTTCCCATAGCCGTGGGGTGACTTCCCTGGT  
CACCAAGGCAGTGCATGCATGTTGGG

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**FIGURE 2648**

MTTASTSQVRQNYHQDSEAAINRQINLELYTSYLYLSTSYFFDLDDVALKNFAKYFLHQSHEEREHAEKLLKLQN  
QRGGRILLQDIKKPCDDWESGLNAMECALHLEKNVYQSPLELHKPATDKNAIKEWGDHVTNLCKMGAPESGLAE  
YLFDKHSLGSDNES

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**FIGURE 2649**

ATGGCATCCGTTGCAGTTGATCCACAACCGAGTGTGGTGACTCGGGTGGTCAACCTGCCCTTGGTGAGCTCCACG  
TATGACCICATGTCTCAGCCTATCTCAGTACAAAGGACCAGTATCCCTACCTGAAGTCTGTGTGTGAGATGGCA  
GAGAACGGTGTGAAGACCATCACCTCCGTGGCCATGACCAGTGCTCTGCCCATCATCCAGAAGCTAGAGCCGCAA  
ATTGCAGTTGCCAATACCTATGCCTGTAAGGGGCTAGACAGGATTGAGGAGAGACTGCCTATTCTGAATCAGCCA  
TCAACTCAGATTGTTGCCAATGCCAAAGGCGCTGTGACTGGGGCAAAAGATGCTGTGACGACTACTGTGACTGGG  
GCCAAGGATTCTGTGGCCAGCACGATCACAGGGGTGATGGACAAGACCAAAGGGGCAGTGACTGGCAGTGTGGAG  
AAGACCAAGTCTGTGGTCAGTGGCAGCATTAAACACAGTCTTGGGGAGTCGGATGATGCAGCTCGTGAGCAGTGGC  
GTAGAAAATGCACTCACCAAATCAGAGCTGTTGGTAGAACAGTACCTCCCTCTCACTGAGGAAGAACTAGAAAAA  
GAAGCAAAAAAAGTTGAAGGATTTGATCTGGTTCAGAAGCCAAGTTATTATGTTAGACTGGGATCCCTGTCTACC  
AAGCTTCACTCCCGTGCCTACCAGCAGGCTCTCAGCAGGGTTAAAGAAGCTAAGCAAAAAAGCCAACAGACCATT  
TCTCAGCTCCATTCTACTGTTACCTGATTGAATTTGCCAGGAAGAATGTGTATAGTGCCAATCAGAAAATTCAG  
GATGCTCAGGATAAGCTCTACCTCTCATGGGTAGAGTGGAAAAGGAGCAATTGGATATGATGATACTGATGAGTCC  
CACTGTGCTGAGCAATTTGAGTCACGTACTCTTGCAATTGCCCGCAACCTGACTCAGCAGCTCCAGACCACGTGC  
CACACCCTCCTGTCCAACATCCAAGGTGTACCACAGAACATCCAAGATCAAGCCAAGCACATGGGGGTGATGGCA  
GGCGACATCTACTCAGTGTTCCGCAATGCTGCCTCCTTTAAAGAAGTGCTGACAGCCTCCTCACTTCTAGCAAG  
GGGCAGCTGCAGAAAATGAAGGAATCTTTAGATGACGTGATGGATTATCTTGTTAACAACACGCCCCCTCAACTGG  
CTGGTAGGTCCCTTTTATCCTCAGCTGACTGAGTCTCAGAATGCTCAGGACCAAGGTGCAGAGATGGACAAGAGC  
AGCCAGGAGACCCAGCGATCTGAGCATAAACTCATTAA

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**FIGURE 2650**

MASVAVDPQPSVVTRVVNLPLVSSTYDLMSAYLSTKDQYPYLKSVCEMAENGVKTIITSVAMTSALPIIQKLEPQ  
IAVANTYACKGLDRIEERLPILNQFSTQIVANAKGAVTGAKDAVTTTGTGAKDSVASTITGVMDKTKGAVTGSVE  
KTKSVVSGSINTVLGSRMMQLVSSGVENALTKSELLVEQYLPLTEEELEKEAKKVEGFDLVQKPSYYVRLGSLST  
KLHSRAYQQALSRVKEAKQKSQQTISQLHSTVHLIEFARKNVYSANQKIQDAQDKLYLSWVEWKRSIGYDDTDES  
HCAEQFESRTLAIARNLTQQLOTTCHTLLSNIQGVQNIQDQAKHMGVMAGDIYSVFRNAASFKEVSDSLTSSK  
GQLQMKESLDDVMDYLVNNTPLNWLVGPFYPQLTESQNAQDQGAEMDKSSQETQRSEHKTH



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**FIGURE 2651**

CCTCTTTTCCGTGGCGCCTCGGAGGCGTTCAGCTGCTTCAAGATGAAGCTGAACATCTCCTTCCCAGCCACTGGC  
TGCCAGAACTCATTGAAGTGGACGATGAACGCAAACCTCGTACTTTCTATGAGAAGCGTATGGCCACAGAAGTT  
GCTGCTGACGCTCTGGGTGAAGAATGGAAGGGTTATGTGGTCCGAATCAGTGGTGGGAACGACAAACAAGGTTTC  
CCCATGAAGCAGGGTGTCTTGACCCATGGCCGTGTCCGCCTGCTACTGAGTAAGGGGCATTCTGTACAGACCA  
AGGAGAACTGGAGAAAGAAAGAGAAAATCAGTTCGTGGTTGCATTGTGGATGCAAATCTGAGCGTTCTCAACTG  
GTTATTGTAAAAAAGGAGAGAAGGATATTCCTGGACTGACTGATACTACAGTGCCTCGCCGCCTGGGCCCCAAA  
AGAGCTAGCAGAATCCGCAAACCTTTCAATCTCTCTAAAGAAGATGATGTCCGCCAGTATGTTGTAAGAAAGCCC  
TTAAATAAAGAAGGTAAGAAACCTAGGACCAAAGCACCCAAGATTCAGCGTCTTGTTACTCCACGTGTCCTGCAG  
CACAAACGGCGGCGTATTGCTCTGAAGAAGCAGCGTACCAAGAAAAATAAAGAAGAGGCTGCAGAATATGCTAAA  
CTTTTGCCAAGAGAATGAAGGAGGCTAAGGAGAAGCGCCAGGAACAAATTGCGAAGAGACGCAGACTTTCCTCT  
CTGCGAGCTTCTACTTCTAAGTCTGAATCCAGTCAGAAATAAGATTTTTTGAGTAACAAATAAATAAGATCAGAC  
TCTG

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**FIGURE 2652**

MKLNISFPATGCQKLEVDDERKLRTFYEKRMATEVAADALGEEWKGYVVRISSGNDKQGFPKQGVLTTHGRVRL  
LLSKGHSCYRPRRTGERKRKSVRGCIVDANLSVLNLVIVKKGEKDIPGLTDTVPRLGPKRASRIRKLFNLSKE  
DDVRQYVVRKPLNKEGKKPRTKAPKIQRLVIPRVLQHKRRRIALKKQRTKKNKEEAAYAKLLAKRMKEAKEKRQ  
EQIAKRRRLSSLRASTSKSESSQK

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**FIGURE 2653**

CCTCCCTACGGGCGCCTCCGGCAGCCCTTCCCGCGTGCGCAGGGCTCAGAGCCGTTCCGAGATCTTGAGAGTCCG  
GGTGGGAGTGGGGGTGGGGTGGGGGTGGGGGTGAAGGTGGGGGCGGGCGCGCTCAGGGAAGGCGGGTGC GCGCC  
TGCGGGGCGGAGATGGGCAGGGGGCGGTGCGTGCGTCCCAGTCTGCAGTTAAGGGGGCAGGAGTGGCGCTGCTCA  
CCTCTGGTGCCAAAGGGCGGCGCAGCGGTGCCGAGCTCGGCCCTGGAGGCGGCGAGAACATGGTGCGCAGGTTTC  
TTGGTGACCTCCGGATTTCGGCGCGCTGCGGCCCGCCGCGAGTGAGGGTTTTCTGTGGTTCACATCCCGCGGCTC  
ACGGGGGAGTGGGCAGCGCCAGGGGCGCCCGCGCTGTGGCCCTCGTGCTGATGCTACTGAGGAGCCAGCGTCTA  
GGGCAGCAGCCGCTTCTAGAAAGACCAGGTCATGATGATGGGCAGCGCCGAGTGGCGGAGCTGCTGCTGCTCCA  
CGGCGCGGAGCCCAACTGCGCCGACCCCGCCACTCTCACCCGACCCGTGCACGACGCTGCCCGGGAGGGCTTCCT  
GGACACGCTGGTGGTGTGTCACCGGGCCGGGGCGCGGCTGGACGTGCGCGATGCCTGGGGCCGTCTGCCCGTGGA  
CCTGGCTGAGGAGCTGGGCCATCGCGATGTGCGACGGTACCTGCGCGCGGCTGCGGGGGGCACCAGAGGCAGTAA  
CCATGCCCCGATAGATGCCGCGGAAGGTCCCTCAGACATCCCCGATTGAAAGAACCAGAGAGGCTCTGAGAAACC  
TCGGGAAACITAGATCATCAGTCACCGAAGGTCCCTACAGGGCCACAACCTGCCCCCGCCACAACCCACCCGCTTT  
CGTAGTTTTTCAATTTAGAAAATAGAGCTTTTAAAAATGTCTGCCTTTTAACTAGATATATGCCTTCCCCACTA  
CCGTAAATGTCCATTTATATCATTTTTTATATATTCTTATAAAAATGTAAAAAAGAAAAACACCGCTTCTGCCTT  
TTCACTGTGTTGGAGTTTCTGGAGTGAGCACTCACGCCCTAAGCGCACATTCATGTGGGCATTTCTTGCGAGCC  
TCGCAGCCTCCGGAAGCTGTGCACTTCATGACAAGCATTTTGTGAACTAGGGAAGCTCAGGGGGGTTACTGGCTT  
CTCTTGAGTCACACTGCTAGCAAATGGCAGAACCAAAGCTCAAATAAAAATAAAATAATTTTCATTCACTTCACTC

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**FIGURE 2654**

MGRGRCVGPSTQLRGQEWRCSPVLPKGGAAAAELGPGGGENMVRRFLVTLRIRACGPPRVRFVWHIPRLTGEW  
AAPGAPAAVALVLMLLRSQRLGQQPLPRRPGHDDGQRPSSGAAAAPRRGAQLRRPRHSHPTRARRCPGGLPGHAG  
GAAPGRGAAGRARCLGPSARGPG

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**FIGURE 2655**

CCCAACCTGGGGCGACTTCAGGTGTGCCACATTTCGCTAAGTGCTCGGAGTTAATAGCACCTCCTCCGAGCACTCG  
CTCACGGCGTCCCCTTGCTTGAAAGATACCGCGGTCCCTCCAGAGGATTGAGGGACAGGGTCGGAGGGGGCTC  
TTCCGCCAGCACCGGAGGAAGAAAGAGAGGGGGCTGGCTGGTCACCAGAGGGTGGGGCGGACCGCGTGCGCTCGG  
CGGCTGCGGAGAGGGGGAGAGCAGGCAGCGGGCGGCGGGGAGCAGCATGGAGCCGGCGGGGAGCAGCATGGA  
GCCTTCGGCTGACTGGCTGGCCACGGCCGCGGCCCGGGTGGGTAGAGGAGGTGCGGGCGCTGCTGGAGGCGGG  
GGCGCTGCCCCAACGCACCGAATAGTTACGGTCGGAGGCCGATCCAGGTCATGATGATGGGCAGCGCCGAGTGGC  
GGAGCTGCTGCTGCTCCACGGCGCGGAGCCCAACTGCGCCGACCCGCCACTCTCACCCGACCCGTGCACGACGC  
TGCCCGGGAGGGCTTCCTGGACACGCTGGTGGTGCTGCACGGGGCGGGCGCGGTGGACGTGCGCGATGCCTG  
GGGCCGTCTGCCCCTGGACCTGGCTGAGGAGCTGGGCCATCGCGATGTGCGACGGTACCTGCGCGCGGTGCGGG  
GGGCACCAGAGGCAGTAACCATGCCCCATAGATGCCGCGGAAGGTCCCTCAGACATCCCCGATTGAAAAGAACCA  
GAGAGGCTCTGAGAAACCTCGGGAAACTTAGATCATCAGTCACCGAAGGTCTACAGGGCCACAACCTGCCCCGC  
CACAAACCCACCCGCTTTCGTAGTTTTTCATTTAGAAAAATAGAGCTTTTAAAAATGTCCTGCCTTTTAACGTAGAT  
ATATGCCTTCCCCCACTACCGTAAATGTCCATTTATATCATTTTTTATATATTCTTATAAAAAATGTA AAAAAGAA  
AAACACCGCTTCTGCCTTTTCACTGTGTTGGAGTTTTCTGGAGTGAGCACTCACGCCCTAAGCGCACATTTCATGT  
GGGCATTTCTTGCGAGCCTCGCAGCCTCCGGAAGCTGTCGACTTCATGACAAGCATTTTGTGAAGTAGGGAAGCT  
CAGGGGGGTTACTGGCTTCTCTTGAGTCACACTGCTAGCAAATGGCAGAACCAAGCTCAAATAAAAAATAAAATA  
ATTTTCATTCATTCATC

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**FIGURE 2656**

MEPAAGSSMEPSADWLATAAARGRVEEVRALEAGALPNAPNSYGRRPIQVMMGSARVAELLLLHGAEPNCADP  
ATLTRPVHDAAREGFDTLVVLHRAGARLDVRDAWGRLPVDLAEELGHRDVARYLRAAAGGTRGSNHARIDAAEG  
PSDIPD

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**FIGURE 2657**

TGTGTGGGGGTCTGCTTGGCGGTGAGGGGGCTCTACACAAGCTTCCTTTCCGTTCATGCCGGCCCCACCCCTGGCT  
CTGACCATTCTGTTCTCTCTGGCAGGTCATGATGATGGGCAGCGCCCGAGTGGCGGAGCTGCTGCTGCTCCACGG  
CGCGGAGCCCCAACTGCGCCGACCCCGCCACTCTCACCCGACCCGTGCACGACGCTGCCCGGGAGGGCTTCCTGGA  
CACGCTGGTGGTGTGTCACCGGGCCGGGGCGGGCTGGACGTGCGCGATGCCTGGGGCCGTCTGCCCGTGGACCT  
GGCTGAGGAGCTGGGCCATCGCGATGTCGCACGGTACCTGCGCGCGGCTGCGGGGGGCACCAGAGGCAGTAACCA  
TGCCCGCATAGATGCCGCGGAAGGTCCCTCAGACATCCCCGATTGAAAGAACCAGAGAGGCTCTGAGAAACCTCG  
GGAACTTAGATCATCAGTCACCGAAGGTCCCTACAGGGCCACAACCTGCCCCGCCACAACCCACCCCGCTTTCGT  
AGTTTTCATTTAGAAAATAGAGCTTTTAAAAATGTCCTGCCTTTTAACGTAGATATAAGCCTTCCCCACTACCG  
TAAATGTCCATTTATATCATTTTTTATATATTCTTATAAAAATGTAAAAAGAAAAACACCGCTTCTGCCTTTTC  
ACTGTGTTGGAGTTTTCTGGAGTGAGCACTCACGCCCTAAGCGCACATTTCATGTGGGCATTTCTTGCAGGCCTCG  
CAGCCTCCGGAAGCTGTCGACTTCATGACAAGCATTTTGTGAAGTGGGAAGCTCAGGGGGGTACTGGCTTCTC  
TTGAGTCACACTGCTAGCAAATGGCAGAACCAAAGCTCAAATAAAAATAAAATAATTTTCATTCACTC

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**FIGURE 2658**

MMGSARVAELLLLHGAEPNCADPATLTRPVHDAAREGFDTLVVLHRAGARLDVRDAWGRLPVDLAEELGHRDV  
ARYLRAAAGGTRGSNHARIDAAEGPSDIPD



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**FIGURE 2659**

GCAGTAGTGCTAGCGGCTTCACGGTTCGGTCTCGGACCCGGCAGCCGCCACTGGTGCTGAGCTGTTAGGAAGCC  
CCTATCGGCGAGCTCATTGGAGCTTGAACCCATTGTACCCCTCCGACTCACC GGCAAAAAAAAAAAAAAAAAAT  
GGTTGAAGCAGATTGCCCAGGAAAGCCGTTCACTGGTGGGCTTAACACGGAAACAAATGAGAAAGCTCTTGAAGC  
AGTATTTGGCAAATATGGACGAATAGTGGAGTACTCTTGGTGAAAGACCATGAAACCAACAAATCAGGAGGATT  
TGCTTTTGTACCTTTGAAAGCCCAGCAGATGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGG  
AAAAGCCATCGAGGTGGAACAAGCCAACAAACCATCATTTGAAAGTGGTAGACGTGGACCGCCTCCACCTCCAAG  
AAGTAGAGGCCCTCCAAGAGGTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACAAGGGGACCTCCCTCACGGGG  
AGGACACATGGATGACGGTGGATATTCCATGAATTTAATCATGAGTTCTTCCAGGGGACCACATCCAGTAAAAAG  
AGGACCACCACCAAGAAGTGGGAGTCTCTTCTAAGAGATCTGCACCTTCAGGACCAGTTTCGCAGTAGCAGTGA  
AATGGGAGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTACGGAGGTCCACCTCGAAGGGAAGTGTGCCCTC  
TTGTAGAAATGATTATTTGTCCCCAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAAGCAGAGATTACCC  
AAGTTCTCATGATACTAGAGCTTATGCACCACCACCAGAGATTATACTTACCGTGATTATGGTCATTCCAGTTC  
ACGTGTTGACTATCCATAAAGAGGCTATAGCGATAGAGATAGATATGGTCGTGATCATGACTATTCAGATCATCC  
AGGTGGAGGTTCTACAGAGATTATATGAGAGTTATGGTAACTCACGTAGTGCTCCACCTACACGAGGGCCCCC  
ACCATCTTATGGTGGAAAGCAGTCGCTATGATGATTACAGCAGCTCATGTGACGGATATGGTGGAAAGTCGAGACAG  
TTACTCAAGCAGCCGAAGTGATCTCTACTCAAGTGGTCGTGATCGGGTTGGCAGACAAGAAAGAGGGCTTACCCC  
TTCTATGGAAGAGGATACCCCTCCTCCACGTGATTCTTACAGCAGTTCAAGTGCGGAGCACCAAGCGGTGGTGGC  
TGTGGAGGAAGCCGATCTGATAGAGGGGAGGTAGAAGCAGATACTAGAAACAAACAAAACCTTTGGACAAAATC  
CCAGTTCAAAAGAAACAAAAAGTGGAAAGCTATTCTATCATAACTACCCAAGGACTACTAAAAGGAAAAATGTGTT  
ACTTTTTAAAAATTCCTGTAAAGTTCCCCCTCCATAATTTTTATGTTCTTGTGAGGAGAAAAGTAAAACATGTTT  
AATTTTATTTGACTTTTGCATTGCTTTTCAACAAGCAAACGTTAAATGTGTTAAGACTTGTACTGGTGTGTAA  
CTTTCCAAGTAAAAGTATCCCTAAAGGCCACTTCCTATCTGATTTTTCCAGTAAATGAGGCAGGCAATTCTAAG  
ATCTTCCACAAAACATCTAGCCATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAAGCTAGCTATTAG  
AGGGTGGTTGGGGTATGCTACTCATAAGATTTCAAGGTGCTTCCAAGTAAATCTCAATGTTTTTCAGTATGAAA  
AACCTGAAATCACATGCCCTTTGTAAGGAAAGTGCTATTACCCAGTAAACCCAAAAAGCAAATGGATGATGCTG  
GCCATTTTGCCTTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCTTTCCCCCTCCCCCAATAAGACCATT  
AAGTGTGTGTTAAACAACCTACAGAATACTAAATAAAAAGTTTGGCCAAAACC

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**FIGURE 2660**

CGGTAAC TACCCCGGCTGCGCACAGCTCGGCGCTCCTTCCCGCTCCCTCACACACCGCCTCAGCCCGCACCGGCA  
GTAGAAGATGGTGAAAGAAACAACCTTACTACGATGTTTTGGGGGTCAAACCCAATGCTACTCAGGAAGAATTGAA  
AAAGGCTTATAGGAAACTGGCCTTGAAGTACCATCCTGATAAGAACCCAATGAAGGAGAGAAGTTAAACAGAT  
TTCTCAAGCTTACGAAGTTCTCTCTGATGCAAAGAAAAGGGAATTATATGACAAAGGAGGAGAACAGGCAATTAA  
AGAGGGTGGAGCAGGTGGCGGTTTTGGCTCCCCATGGACATCTTGATATGTTTTTTGGAGGAGGAGGAAGGAT  
GCAGAGAGAAAGGAGAGGTAAAAATGTTGTACATCAGCTCTCAGTAACCCTAGAAGACTTATATAATGGTGCAAC  
AAGAAAAC TGGCTCTGCAAAGAATGTGATTTGTGACAAATGTGAAGGTAGAGGAGGTAAGAAAGGAGCAGTAGA  
GTGCTGTCCCAATTGCCGAGGTACTGGAATGCAAATAAGAATTATCAGATAGGACCTGGAATGGTTCAGCAAAT  
TCAGTCTGTGTGCATGGAGTGCCAGGGCCATGGGAGCGGATCAGTCCTAAAGATAGATGTAAAAGCTGCAACGG  
AAGGAAGATAGTTTCGAGAGAAGAAAATTTTAGAAGTTCATATTGACAAAGGCATGAAAGATGGCCAGAAGATAAC  
ATTCCATGGTGAAGGAGACCAAGAACCAGGACTGGAGCCAGGCGATATTATCATTGTGTTAGATCAGAAGGACCA  
TGCTGTTTTTACTCGACGAGGAGAAGACCTTTTCATGTGTATGGACATACAGCTCGTTGAAGCACTGTGTGGCTT  
CCAGAAGCCAATATCTACTCTTGACAACCGAACCATCGTCATCACCTCTCATCCAGGTCAGATTGTCAAGCATGG  
AGATATCAAGTGTGTACTAAATGAAGGCATGCCAATTTATCGTAGACCATATGAAAAGGGTCGCCTAATCATCGA  
ATTTAAGGTAAACTTTCTCTGAGAATGGCTTTCTCTCCTGATAAACTGTCTTTGCTGGAAAACTCCTACCCGA  
GAGGAAGGAAGTGAAGAGACTGATGAGATGGACCAAGTAGAACTGGTGGACTTTGATCCAAATCAGGAAAGACG  
GCGCCACTACAATGGAGAAGCATATGAGGATGATGAACATCATCCAGAGGTGGTGTTCAGTGTGAGACCTCTTA  
ATGGCCAGTGAATAACACTCACTGCTGGCATTTAATGTGCAGTAGTGAATGAGTGAAGGACTGTAATCATAATAT  
GCTCACTACTTGCTCTTGTGTTTTGTTTTAATAAACTATAGTAGTGTATATAAAAAGTTAAATGAAGAATAAACGCA  
AATATAAAAGCTC

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**FIGURE 2661**

MVKETTYDVLGVKPNATQEELKKAYRKLALKYHPDKNPNEGEKFKQISQAYEVLSDAKKRELYDKGGEQAIKEG  
GAGGGFGSPMDIFDMFFGGGGRMQRERRGKNVHQLSVTLEDLYNGATRKLALQKNVICDKCEGRGGKKGAVECC  
PNCRGTMQIRIHQIGPGMVQQIQSVCMECQGHGERISPKDRCKSCNGRKIVREKKILEVHIDKGMKDGQKITFH  
GEGDQEPGLEPGDIIIVLDQKDHAVFTRRGEDLFMCMDIQLVEALCGFQKPISTLDNRTIVITSHPGQIVKHGDI  
KCVLNEGMPYRRPYEKGRLIIEFKVNFPENGFLSPDKLSLLEKLLPERKEVEETDEMDQVELVDFDPNQERRRH  
YNGEAYEDDEHHPRGGVQCQTS

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**FIGURE 2662**

TAGTCGGGCGGGGTTGTGAGACGCCGCTCAGCTTCCATCGCTGGGCGGTCAACAAGTGCGGGCCTGGCTCAGC  
GCGGGGGGGCGCGGAGACCGCGAGGCGACCGGAGCGGCTGGGTTCCCGGCTGCGCGCCCTTCGGCCAGGCCGGG  
AGCCGCGCCAGTCGGAGCCCCCGGCCAGCGTGGTCCGCCTCCCTCTCGGCGTCCACCTGCCCGGAGTACTGCCA  
GCGGGCATGACCGACCCACCAGGGGCGCGCCCGGCGCTCGCAGGCCGCGGATGAAGAAGAAAACCCGGCGCC  
GCTCGACCCGGAGCGAGGAGTTGACCCGGAGCGAGGAGTTGACCTGAGTGAGGAAGCGACCTGGAGTGAAGAGG  
CGACCCAGAGTGAGGAGGCGACCCAGGGCGAAGAGATGAATCGGAGCCAGGAGGTGACCCGGGACGAGGAGTCGA  
CCCGGAGCGAGGAGGTGACCAGGGAGGAAATGGCGGCAGCTGGGCTCACCCTGACTGTCAACCCACAGCAATGAGA  
AGCACGACCTTCATGTTACCTCCCAGCAGGGCAGCAGTGAACCAGTTGTCCAAGACCTGGCCCAGGTTGTTGAAG  
AGGTCATAGGGGTTCCACAGTCTTTTCAGAACTCATATTTAAGGGAAAATCTCTGAAGGAAATGGAACACCGT  
TGTCAGCACTTGGAATACAAGATGGTTGCCGGGTCATGTTAATTGGGAAAAAGAACAGTCCACAGGAAGAGGTTG  
AACTAAAGAAAGTTGAAACATTTGGAGAAGTCTGTGGAGAAGATAGCTGACCAGCTGGAAGAGTTGAATAAAGAGC  
TACTGGAATCCAGCAGGGTTTTCTGCCCAAGGATTTGCAAGCTGAAGCTCTCTGCAAACCTTGATAGGAGAGTAA  
AAGCCACAATAGAGCAGTTTTATGAAGATCTTGGAGGAGATTGACACACTGATCCTGCCAGAAAATTTCAAAGACA  
GTAGATTGAAAAGGAAAGGCTTGGTAAAAAAGGTTTCAGGCATTCTAGCCGAGTGTGACACAGTGGAGCAGAACA  
TCTGCCAGGAGACTGAGCGGCTGCAGTCTACAACTTTGCCCTGGCCGAGTGAAGGTGTAGCAGAAAAAGGCTGTG  
CTGCCCTGAAGAATGGCGCCACCAGCTCTGCCGTCTCTGGATCGGAATTTACCTGATTTCTTCAGGGCTGCTGGG  
GGCAACTGGCCATTTGCCAATTTTCTACTCTCACACTGGTTCTCAATGAAAAATAGTGTCTTTGTGATTTGAGT  
AAAGCTCCTATTCTGTTTTTTCACAAAAA

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**FIGURE 2663**

LAQRGGARRPRGDRERLGSRLRALRPGREPRQSEPPAQRGPPPSRRPPARSTASGHDRPTRGAAAGARRPRMKKK  
TRRRSTRSEELTRSEELTLSEEATWSEEATQSEEATQGEEMNRSQEVTRDEESTRSEEVTREEMAAAGLTVTVTH  
SNEKHDLHVTSQQGSSEPVVQDLAQVVEEVIGVPQSFQKLIFKGKSLKEMETPLSALGIQDGCVRMLIGKKNSPQ  
EEVELKKLKHLEKSVEKIADQLEELNKELTGIQQGFLPKDLQAEALCKLDRRVKATIEQFMKILEEIDTLILPEN  
FKDSRLKRKGLVKKVQAFLAECTVEQNICQETERLQSTNFALAE.

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FIGURE 2664

GGGGAAGTCGAGGCCGGGAGTGA CTCTGCTTCCGTTTCTGGTTTTGCTCTAGTGTTTGGGTTTCTTCGCGGCTGCT  
CAAGATGAACCGACTCTTCGGGAAAGCGAAACCCAAGGCTCCGCCGCCAGCCTGACTGGCTGCATTGGCACGGT  
GGACAGTAGAGCAGAATCCATTGACAAGAAGATTTCTCGATTGGATGCTGAGCTAGTGAAGTATAAGGATCAGAT  
CAAGAAGATGAGAGAGGGTCTCTGCAAAGAATATGGTCAAGCAGAAAGCCTTGCGAGTTTTAAAGCAAAAGAGGAT  
GTATGAGCAGCAGCGGGACAATCTTGCCCAACAGTCATTCAACATGGAACAAGCCAATTATACCATCCAGTCTTT  
GAAGGACACCAAGACCACGGTTGATGCTATGAAACTGGGAGTAAAGGAAATGAAGAAGGCATACAAGCAAGTGAA  
GATCGACCAGATTGAGGATTTACAAGACCAGCTAGAGGATATGATGGAAGATGCAAATGAAATCCAAGAAGCACT  
GAGTCGCAGTTATGGCACCCCAAGTGGATGAAGATGATTTAGAAGCAGAGTTGGATGCACTAGGTGATGAGCT  
TCTGGCTGATGAAGACAGTTCTTATTTGGATGAGGCAGCATCTGCACCTGCAATTCAGAAAGTGTTCCCACTGA  
TACAAAAACAAGGATGGAGTTCTGGTGGATGAATTTGGATTGCCACAGATCCCTGCTTCAAGATTTGCATCAT  
TCAAGCATATCTTGTAACAACACATATTATGGGACTAGGAAATATTTATCTTTCCAAATTTGCCATAACAGA  
TTTAGGTTTCTTTCTTTCTTTGAAGGAAAGTTTAATTACATTGCTCTTTTATTTTTTCCATTAAAGAGACTCATT  
GCTTGGGAAATGCTTTCTTCGTACTAAAAATTTGATTCCTTTTTTCTTATGAAAAACGAACTCAGTTTAAAAGTA  
TTTTTAGCTCGTATGACTTGTTTTCAATCATTAAATAATAATTTGAAATAAACTAAGGAAATGGAATCTTAAAAG  
TCTATGACAGTGTAACCTCTACAGTCTCAAAATGACCTGATAAATTGATAAGACAAAGATGAGATTATTGGGGCTG  
TTCATATTATGATTGAGAAATCATTTTCTATTGTGGTATTATAGGTTGGTTAAAGTGATGGCCTTTTTGATGGGTT  
TTGTTGTCTTTGTGAACAAGTCGTTACTGTGTCCATTATTGGAATGGAATTATCACTACTGTATCATGAGTGGG  
TATTTTGATTCTATGGTTCCCTCAGTATTACATCTTGACTTGTAATCAATTATGAATATTTCTTGATATTTAATG  
TATAGGACATTTATTTATACTCAATAAATATTTTTCAAAGGAAAAAAAAAAAAAAAAATCAAAAAAAAAAAAAAAAAA  
AAAAAAAAA

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**FIGURE 2665<sup>2</sup>**

MNRLF GKAKPKAPPSLTG CIGTVDSRAESIDKKISRLDAELVKYKDQIKKMREGPAKNMVKQKALRVLKQKRM  
YEQQRDNLAQQSFNMEQANYTIQSLKDTKTTVDAMKLGVKEMKKAYKQVKIDQIEDLQDQLEDMMEDANEIQEALS  
RSYGTPELDEDDLEAELDALGDELLADEDSSYLDEAASAPAIPEGVPTDTKNKDGVLVDEFGLFQIPAS

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FIGURE 2666

TGCTCGCTGCGCCACCGCCTCCCGCCACCCCTGCCCGCCCGACAGCGCCGCGCCTGCCCGGCCATGGGTCGACA  
GAAGGAGCTGGTGTCCCGCTGCGGGGAGATGCTCCACATCCGCTACCGGCTGCTCCGACAGGCGCTGGCCGAGTG  
CCTGGGGACCCCTCATCCTGGTGATGTTTGGCTGTGGCTCCGTGGCCCAGGTTGTGCTCAGCCGGGGCACCCACGG  
TGGTTTCCTCACCATCAACCTGGCCTTTGGCTTTGCTGTCACTCTGGGCATCCTCATCGCTGGCCAGGTCTCTGG  
GGCCACCTGAACCCTGCCGTGACCTTTGCCATGTGCTTCCTGGCTCGTGAGCCCTGGATCAAGTGCCCATCTA  
CACCTGGCACAGACGCTGGGAGCCTTCTTGGGTGCTGGAATAGTTTTTGGGCTGTATTATGATGCAATCTGGCA  
CTTCGCCGACAACCAGCTTTTTGTTTCGGGCCCCAATGGCACAGCCGGCATCTTTGCTACCTACCCCTCTGGACA  
CTTGATATGATCAATGGCTTCTTTGACCAGTTCATAGGCACAGCCTCCCTTATCGTGTGTGTGCTGGCCATTGT  
TGACCCCTACAACAACCCCGTCCCCGAGGCGCTGGAGGCCCTTACCGTGGGCGCTGGTGGTCCCTGGTCATTGGCAC  
CTCCATGGGCTTCAACTCCGGCTATGCCGTCAACCTGCCCGGGACTTTGGCCCCCGCCTTTTTACAGCCCTTGC  
GGGCTGGGGCTCTGCAGTCTTCACGACCGGCCAGCATTTGGTGGTGGGTGCCCATCGTGTCCCCACTCCTGGGCTC  
CATTGCGGGTGTCTTCGTGTACCAGCTGATGATCGGCTGCCACCTGGAGCAGCCCCACCTCCAACGAGGAAGA  
GAATGTGAAGCTGGCCCATGTGAAGCACAAGGAGCAGATCTTGAGTGGGCAGGGGCCATCTCCCCACTCCGCTGCC  
CTGGCCTTGAGCATCCACTGACTGTCCAAGGGCCACTCCCAAGAAGCCCCCTTACGATCCACCCTTTCAGGCTA  
AGGAGCTCCCTATCTACCCCTACCCCAACGAGACAGCCCTTACAGGATTTCCACTGGACCTTGCCCAAATAGCACC  
TTAGGCCACTGCCCCTAAGCTGGGGTGGAACCGGAATTTGGGTCAATACATCCTTTTGTCTCCCAAGGGAAGAGA  
ATGGGCAGCAGGTATGTGTGTGTGTGCATGTGTGTGCATGTGTGTGCATGTGTGTGCAGGGGTGTGTGTGTGTGG  
GGGGGTTCCCAGATATTACAGGGCAAGGGACCAGTCGGAAGGGATTCTGGCTATTGGGGGAGCCAGAGACAGGG  
GAAGGCAGCCTGTCCATCTGTGCATAAGGAGAGGAAAGTTCAGGGTGTGTATGTTTACAGGGGCTTCACATGGAG  
GAGCTGCAGATAGATATGTGTTTCT



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**FIGURE 2667**

MGRQKELVSRGEMLHIRYRLRQALAECLGTLILVMFGCGSVAQVLSRGTHGGFLTINLAFGFAVTLGILIAG  
QVSGAHLNPAVTFAMCFLAREPWIKLPITYTLAQTLGAFLGAGIVFGLYYDAIWHFADNQLFVSGPNGTAGIFATY  
PSGHLDMINGFFDQFIGTASLIVCVLAIVDPYNNPVPRGLEAFTVGLVVLVIGTSMGFNSGYAVNPARDFGPRLF  
TALAGWGSVFTTGQHWWVP IVSPLLGSIAGVFVYQLMIGCHLEQPPPSNEEENVKLAHVKHKEQI

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**FIGURE 2668**

GGCACGAGGGAGGCGGGCTCCAGCCGGCGCGGCGAGGCTCGGCGGTGGGATCCGGCGGGCGGTGCTAGCTC  
CGCGCTCCCTGCCTCGCTCGCTGCCGGGGCGGTTCGGAAGGCGCGGCGGAAGCCCGGGTGGCCGAGGGCGCGA  
TGGCTGCTCCTGTCCCGTGGGCCTGCTGTGCTGTGCTTGCCGCGCGCCCGCAGTTGTCTACGCCCAGAGACACA  
GTCCACAGGAGGCACCCCATGTGCAGTACGAGCGCCTGGGCTCTGACGTGACACTGCCATGTGGGACAGCAAACT  
GGGATGCTGCGGTGACGTGGCGGGTAAATGGGACAGACCTGGCCCCCTGACCTGCTCAACGGCTCTCAGCTGGTGC  
TCCATGGCCTTGGAACTGGGCCACAGTGGCCTCTACGCCTGCTTCCACCGTGA CTCTGGCACCTGCGCCACCAAG  
TCCTGCTGCATGIGGGCTTGCCGCGCGGGAGCCTGTGCTCAGCTGCCGCTCCAACACTTACCCCAAGGGCTTCT  
ACTGCACTGGCATGTGCCACCCCCACCTACATTCCCAACACCTTCAATGTGACTGTGCTGCATGGCTCCAAA  
TTATGGTCTGTGAGAAGGACCCAGCCCTCAAGAACCCTGCCACATTGCTACATGCACCTGTTCTCCACCATCA  
AGTACAAGGTCTCCATAAGTGTGCAATGCCCTGGGCCACAATGCCACAGCTATCACCTTTGACGAGTTCACCA  
TTGTGAAGCCTGATCCTCCAGAAAATGTGGTAGCCCGGCCAGTGCCAGCAACCCTCGCCGGCTGGAGGTGACGT  
GGCAGACCCCTCGACCTGGCCTGACCTGAGTCTTTTCTCTCAAGTTCTTTCTGCGCTACCGACCCCTCATCC  
TGGACCAGTGGCAGCATGTGGAGCTGTCCGACGGCACAGCACACCATCACAGATGCCTACGCCGGGAAGGAGT  
ACATTATCCAGGTGGCAGCCAAGGACAATGAGATTGGGACATGGAGTGACTGGAGCGTAGCCGCCACGCTACGC  
CCTGGACTGAGGAACCGCGACACCTACCCACGGAGGCCAGGCTGCGGAGACCACGACCAGCACCACGCTCCC  
TGGCACCCCCACCTACCACGAAGATCTGTGACCCTGGGGAGCTGGGCAGCGCGGGGGACCCTCGGCACCCTTCT  
TGGTCAGCGTCCCCATCACTCTGGCCCTGGCTGCCGCTGCCGCCACTGCCAGCAGTCTCTTGATCTTGAGCCCGGC  
ACCCCATGAGGACATGCAGAGCACCTGCAGAGGAGCAGGAGGCCGGAGCTGAGCCTGCAGACCCCGGTTTCTATT  
TTGCACACGGGCAGGAGGACCTTTTGCACTCTCTTCAGACACAATTTGTGGAGACCCCGGCGGGCCCGGGCCTGC  
CGCCCCCAGCCCTGCCGCACCAAGCTGGCCCTCCTTCCCTCAGGGGAGGTGGGCCATGCAGCTAACCACCC  
CACCAAAGACCCCTCACCTGGCCCTTGGGCTGGACCCTCCAATGCCAGCGACTCCCAGGAGCCCTTGGGGGA  
CGTGAGGGGAGCCTCTCACATCCGATTTCTCTCCTGCCCCAGCCTCCTGTCTATCCCAGGGTCTCTGTTGCCAC  
CATCAGATTATAAGCTCCTGATGCTGGGGGGGCCAGCCATCCCCCTCCCCCAGCACCCACAATTTTCAGTCCC  
CTCCCCTCTGCCCTGTTTTGTATACCCCTCCCCTGACCTGCTCCTATCCCACAGTATTTAATGCCCTGTGAGTC  
CCTTCTAGTCTGACTCAATGGTAACCTGCTGTATTTGAATTTTTATAGATGTATATACAGGGTGGGGGGAGTGG  
GCGGTTCTCATTAAACGTCACCATTTCATGAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2669**

MAAPVPWACCAVLAAAAVVYAQRHSPQEAPHVQYERLGSDVTLPCGTANWDAAVTWRVNGTDLAPDLLNGSQLV  
LHGLELGHSGLYACFHRDSWHLRHQVLLHVGLPPREPVLSCRSNTYPKGFYCSWHLPTPTYIPNTFNVTVLHGSK  
IMVCEKDPALKNRCHIRYMHLESTIKYKVSISVSNALGHNATAITFDEFTIVKPDPPENVVARPVPSNPRRLEVT  
WQTPSTWPDPESEFLKFFLRYPILLDQWQHVELSDGTAHTITDAYAGKEYIIQVAAKDNEIGTWSWSDWSVAAHAT  
PWTEEPRLTTEAQAETTTSTTSSLAPPPTTKICDPGELGSGGGFSAPFLVSVPI TLALAAAAATASSLLI

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**FIGURE 2670**

CTCCGAGGCCGTGAGCGCAAAGCCTCAGGCCCCGGCTCCCTCCTGAGCTGCGCCGTGCCAGGCCGCCCGCCGGGA  
TGCAGTGGGCCGTGGGCCGGCGGTGGGCGTGGGCCGCGCTGCTCCTGGCTGTGCGAGCGGTGCTGACCCAGGTCG  
TCTGGCTCTGGCTGGGTACGCAGAGCTTCGTCTTCCAGCGCGAAGAGATAGCGCAGTTGGCGCGGCAGTACGCTG  
GGCTGGACCACGAGCTGGCCTTCTCTCGTCTGATCGTGGAGCTGCGGCGGCTGCACCCAGGCCACGTGCTGCCCG  
ACGAGGAGCTGCAGTGGGTGTTCTGTGAATGCGGGTGGCTGGATGGGCGCCATGTGCCTTCTGCACGCTCGCTGT  
CCGAGTATGTGCTGCTCTTCGGCACCGCTTGGGCTCCCGCGGCCACTCGGGGCGCTACTGGGCTGAGATCTCGG  
ATACCATCATCTCTGGCACCTTCCACAGTGGAGAGAGGGGACCACCAAAGTGAGGTCTTCTACCCAGGGGAGA  
CGGTAGTACACGGGCCCTGGTGAGGCAACAGCTGTGGAGTGGGGGCCAAACACATGGATGGTGGAGTACGGCCGGG  
GCGTCATCCCATCCACCCTGGCCTTCGCGCTGGCCGACACTGTCTTCAGCACCCAGGACTTCCTCACCTCTTCT  
ATACTCTTCGCTCCTATGCTCGGGGCTCCGGCTTGAGCTCACCACTACCTCTTTGGCCAGGACCCCTTGACCAG  
CCAGGCCCTGAAGGAAGACCTGCGGATGGACAGGAGCGGGCAGCCCGCACATATCCACTTGCTGGAGCCCATGTTT  
ACAGACAGGGACATACACCATGCAGATCCTGAGTTCCTGCTGTATGAGCAGGGATATCCATGCTTATGTATCCAA  
ACACAGAGACCCATGGGAACAAATGAGACACATATAGATACTGAGACCTGTGTGTACAGTAGGACCATGCACTCA  
CACCCATCTGGAGAGGGAGCCCCCGGTATACCAAGGGAGCCAGTTGTGTTTACAGACACACATCACAGCTTGACT  
CACTAACTGAGGCCCTTTCCATAGCTCCACAGCTTCCACCTCCTCCCCACCAAACCGGGGTTCTAGAGTTAAGGA  
TGGGGGAGGGTATTATACTGCCTCAGTCTGACTCCTCAACCCAGCAGCAATTTGAGGGGATGAGGGGGAAGAGGA  
GCTGCCTTTTGGAGGCCCTTCACCTGCAGCTATGATGCCCTTCCCCTTCTCCCCTGTCCTACCATATGCCTT  
ATCCCCATTCTACTCCCCTGCTATGCAAGTGGCCCTGTGGCTTGTCCTCAACCCCTCAGCAACAAAGCTCAGCT  
GGGGAACGAGAGTAATTTGAAGAATGCTTGAAGTCAGCGTCTTCCATTCCAGAAAGACCCCCATTCTTCCTTTGG  
GGGTATGATGTGGAAGCTGGTTTCAGCCCAGGACCCACCCTGAGGAGAGGATCTAGACAGGTGGGCCTAATTCC  
AAGGGGCCCTTCCTGGCCTGGAGAAGGCCTTTTACACACACACACATACACACACACACACACATATCAC  
AGTTTTACACAGCCCCCTGCTGCATTCTCTGTCCATCTGTCTGTTTCTATTAATAAAGATTTGTTGATCTGTTCC

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**FIGURE 2671**

MQWAVGRRWAWAALLLAVAAVLTQVVWLWLGTQSFVFQREEIAQLARQYAGLDHELAFSRLIVELRRLHPGHVLP  
DEELQWVFVNAGGWMGAMCLLHASLSEYVLLFGTALGSRGHSGRYWAEISDTIISGTFHQWREGTTKSEVFYPGE  
TVVHGPGEATAVEWGPNTWMVEYGRGVIPSTLAFALADTVFSTQDFLTIFYTLRSYARGLRLELTYYLFGQDP

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**FIGURE 2672**

GATGATATGGCAGCCTGCATGAAGTCTGTAAGTCTGAGCAAGGAGCTTAATTATCCAATGAGGAGAGGAATCTTCTC  
TCAGTTGCTTATAAAAATGTTGTAGGAGCCCGTAGGTCATCTTGGAGCATCGTCTCAAGTATTGAACAAAAGACA  
GAAGGTGCTGAGAAAAAACAGCAGATGGCTCAAGAATACAGAGAGAAAAGTCTGAGACCTAGCTAAGAGATAGCTG  
CAATGATGTACTGTCCCTTTTGGAAAAGTTCTTGATCCCCAGTGTCTCACAAGCGAGAGCAAATTCCTTCTATTG  
AAAATGAAAGGAGATCACTACCATTACTTGGCTGAGGTGCGCTGGTGATGATAAGAAAGGGACTGTGGATCAG  
TCACAACAAGCACACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAATGCAACCAACATATCCTATCAGACTGGGT  
CTGGCCCTTAACTTCTCCGTGTTCTATTATGACGTTCTGAATTCCTCAGAGAAAGCCTGCTCTCTTGCAAAGACA  
GCTTTTGATGAAGCCATTGCTGAAGTTGATACATTAAGTGAAGAGTCATCAAAGACAGCACACTAATAATGCAA  
TTACTGAGAGACAAGTTGACATTGTGGTTTTTATGTTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAG  
TTATCTGTTTTTCATCTTGAGGTGGCCAATATGGGGATGTGGAATTTTATACAAGTTATTAATGTTTGGCATAGT  
ACTTTTGGTACATTGTGGCTT

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**FIGURE 2673**

CTGCCACTGCCACCTCGCGGATCAGGAGCCAGCGTTGTTGCCCGACGCCCTCGCTGCCGGTGGGAGGAAGCGAGA  
GGGAAGCCGCTTGCGGGTTTGTCGCCGCTGCTCGCCACCGCCTGGAAGAGCCGAGCCCCGGCCAGTCGGTCCG  
TTGCCACCGCTCGTAGCCGTTACCCGCGGGCCGCCACAGCCGCGCGGGAGAGGCGCGCCCATGGCCTTCTGG  
AGCCGATTCAAAAGGTGATGACCTATCAACAGCCATTCTCAAACAGAAGAACCGTCCCAATCGGTTAATTGTTGA  
TGAAGCCATCAATGAGGACAACAGTGTGGTGTCTTGTCCAGCCCAAGATGGATGAATTGCAGTTGTTCCGAGG  
TGACACAGTGTGCTGAAAGGAAAGAAGAGACGAGAAGCTGTTTGCATCGTCCTTTCTGATGATACTTGTCTGA  
TGAGAAGATTGCGATGAATAGAGTTGTTCCGAATAACCTTCGTGTACGCCTAGGGGATGTCATCAGCATCCAGCC  
ATGCCCTGATGTGAAGTACGGCAAACGTATCCATGTGCTGCCCATTTGATGACACAGTGGAAAGGCATTACTGGTAA  
TCTCTTCGAGGTATACCTTAAGCCGTACTTCTGGAAGCGTATCGACCCATCCGGAAGGAGACATTTTTCTTGT  
CCGTGGTGGGATGCGTGTGTGGAGTTCAAAGTGGTGGAAACAGATCCTAGCCCTTATTGCATTGTTGCTCCAGA  
CACAGTGATCCACTGCGAAGGGGAGCCTATCAAACGAGAGGATGAGGAAGAGTCCTTGAATGAAGTAGGGTATGA  
TGACATTGGTGGCTGCAGGAAGCAGCTAGCTCAGATAAAGGAGATGGTGGAACTGCCCTGAGACATCCTGCCCT  
CTTTAAGGCAATTGGTGTGAAGCCTCCTAGAGGAATCCTGCTTTACGGACCTCCTGGAACAGGAAGACCCTGAT  
TGCTCGAGCTGTAGCAAATGAGACTGGAGCCTTCTTCTTCTGATCAATGGTCTGAGATCATGAGCAAATTGGC  
TGGTGAGTCTGAGAGCAACCTTCGTAAAGCCTTTGAGGAGGCTGAGAAGAATGCTCCTGCCATCATCTTCATTGA  
TGAGCTAGATGCCATCGCTCCCAAAGAGAGAAAACCTCATGGCGAGGTGGAGCGCGCATTGTATCACAGTTGTT  
GACCCTCATGGATGGCCTAAAGCAGAGGGCACATGTGATTGTTATGGCAGCAACCAACAGACCCAACAGCATTGA  
CCCAGCTCTACGGCGATTGTTGTCGCTTTGACAGGGAGGTAGATATTGGAATTCCTGATGCTACAGGACGCTTAGA  
GATTCTTCAGATCCATACCAAGAACATGAAGCTGGCAGATGATGTGGACCTGGAACAGGTAGCCAATGAGACTCA  
CGGGCATGTGGGTGCTGACTTAGCAGCCCTGTGCTCAGAGGCTGCTCTGCAAGCCATCCGCAAGAAGATGGATCT  
CATTGACCTAGAGGATGAGACCATTGATGCCGAGGTGATGAACCTCTTAGCAGTTACTATGGATGACTTCCGGTG  
GGCCTTGAGCCAGAGTAACCCATCAGCACTGCCGGAAACCGTGGTAGAGGTGCCACAGGTAACCTGGGAAGACAT  
CGGGGGCTTAGAGGATGTCAAACGTGAGCTACAGGAGCTGGTCCAGTATCCTGTGGAGCACCCAGACAAATTCCT  
GAAGTTTGGCATGACACCTTCCAAGGGAGTTCTGTTCTATGGACCTCCTGGCTGTGGGAAAACCTTTGTTGGCCAA  
AGCCATTGCTAATGAATGCCAGGCCAACTTCTATCTCCATCAAGGGTCTGAGCTGCTCACCATGTGGTTTGGGGA  
GTCTGAGGCCAATGTGAGAGAAATCTTTGACAAGGCCCGCCAAGCTGCCCCCTGTGTGCTATTCTTTGATGAGCT  
GGATTGATGTCCAAGGCTCGTGAGGTAACATTGGAGATGGTGGTGGGGCTGCTGACCGAGTCATCAACCAGAT  
CCTGACAGAAATGGATGGCATGTCCACAAAAAAATGTGTTTCATCATTGGCGTACCAACCGGCCGTGACATCAT  
TGATCCTGCCATCCTCAGACCTGGCCGTCTTGATCAGCTCATCTACATCCCACTTCCTGATGAGAAGTCCCGTGT  
TGCCATCCTCAAGGCTAACCTGCGCAAGTCCCCAGTTGCCAAGGATGTGGACTTGAGTTCCTGGCTAAAATGAC  
TAATGGCTTCTCTGGAGCTGACCTGACAGAGATTGCCAGCGTGCTTGCAAGCTGGCCATCCGTGAATCCATCGA  
GAGTGAGATTAGGCGAGAACGAGAGAGGCAGACAAACCCATCAGCCATGGAGGTAGAAGAGGATGATCCAGTGCC  
TGAGATCCGTCGAGATCACTTTGAAGAAGCATGCGCTTTGCGCGCCGTTCTGTCAAGTGAACATGACATTCGGAA  
GTATGAGATGTTTGCCAGACCCCTCAGCAGAGTCGGGGCTTTGGCAGCTTCAGATTCCCTTCAGGGAACAGGG  
TGGAGCTGGCCCCAGTCAGGGCAGTGGAGGCGGCACAGGTGGCAGTGTATACAGAGAAGACAATGATGATGACCT  
GTATGGCTTAAGTGGTGGTGGCCAGCGTGACGTGAGCTGGCCTGCCCTGGACCTTGTTCCCTGGGGGTGGGGCGCT  
TGCCCAGGAGAGGGACAGGGGTGCGCCACAGCCTGCTCCATTCTCCAGTCTGAACAGTTCAGCTACAGTCTGA  
CTCTGGACAGGGGGTTTCTGTTGCAAAAATACAAAACAAAAGCGATAAAATAAAAGCGATTTTCATTGTTAGGC  
GGAGAGTGAATTACCAACAGGGAATTGGGCCTTGGGCCTATGCCATTCTGTTGTAGTTTGGGGCAGTGCAGGGG  
ACCTGTGTGGGGTGTGAACCAAGGCACTACTGCCACCTGCCACAGTAAAGCATCTGCACTTGACTCAATGCTGCC  
CGAGCCCTCCCTTCCCCCTATCCAACCTGGGTAGGTGGGTAGGGGCCACAGTTGCTGGATGTTTATATAGAGAGT  
AGGTTGATTTATTTTACATGCTTTTGAGTTAATGTTGGAAAACATAATCACAAGCAGTTTCTAAACCAAAAAATGA  
CATGTTGTAAGGACAATAAACGTTGGGTCAAAATGG

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**FIGURE 2674**

MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVVSLSQPKMDELQLFRGDTVLLKGKKRREAVCIVLSDD  
TCSDEKIRMNRVVRNNLRVRLGDVISIQPCPDVKYGKRIHVLPIDDTVEGITGNLFEVYLKPYFLEAYRPIRKGD  
IFLVRGGMRAVEFKVETDPSPYCIVAPDTVHCEGEPIKREDEEESLNEVGYYDDIGGCRKQLAQIKEMVELPLR  
HPALFKAIGVKPPRGILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAGESSESNLKAFEEAEKNAPAI  
IFIDELDAIAPKREKTHGEVERRIVSQLLTMDGLKQRAHVIVMAATNRPNSIDPALRRFGRFDREVDIGIPDAT  
GRLEILQIHTKNMKLADDVDLEQVANETHGHVGADLAALCSEAALQAIRKKMDLIDLEDETIDAEVMNSLAVTMD  
DFRWALSQSNPSALRETVVEVPQVTWEDIGGLEDVKRELQELVQYPVEHPDKFLKFGMTPSKGVLFYGPPEGCKT  
LLAKAIANECQANFISIKGPELLTMWFGSEANVREIFDKARQAAPCVLFFDELDSIAKARGGNIGDGGGAADRV  
INQILTEMDGMSTKKNVFIIGATNRPDIIDPAILRPGRLDQLIYIPLPDEKSRVAILKANLRKSPVAKDVDLEFL  
AKMTNGFSGADLTEICQRACKLAIRESIESEIRRRERERQTNPSAMEVEEDDPVPEIRRDHFEEAMRFARRSVSDN  
DIRKYEMFAQTLQQSRGFGSFRFPSGNQGGAGPSQGSGGGTGGSVYTEDNDDDLYG



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**FIGURE 2675**

GGCTTCTGGGAGCGACCGCTCCGCTCGTCTCGTTGGTTCCGGAGGTCGCTGCGGCGGTGGGAAATGCTGGCGCGC  
GCGGCGCGGGGCACTGGGGCCCTTTTGCTGAGGGGCTCTCTACTGGCTTCTGGCCGCGCTCCGCGCCGCGCCTCC  
TCTGGATTGCCCCGAAACACCGTGGTACTGTTCTGTGCCGCAGCAGGAGGCCTGGGTGGTGGAGCGAATGGGCCGA  
TTCCACCGGATCCTGGAGCCTGGTTTGAACATCCTCATCCCTGTGTTAGACCGGATCCGATATGTGCAGAGTCTC  
AAGGAAATTGTCATCAACGTGCCTGAGCAGTCGGCTGTGACTCTCGACAATGTAACCTCTGCAAATCGATGGAGTC  
CTTTACCTGCGCATCATGGACCCTTACAAGGCAAGCTACGGTGTGGAGGACCCTGAGTATGCCGTCACCCAGCTA  
GCTCAAACAACCATGAGATCAGAGCTCGGCAAACCTCTCTCTGGACAAAGTCTTCCGGGAACGGGAGTCCCTGAAT  
GCCAGCATTGTGGATGCCATCAACCAAGCTGCTGACTGCTGGGGTATCCGCTGCCTCCGTTATGAGATCAAGGAT  
ATCCATGTGCCACCCCGGGTGAAAGAGTCTATGCAGATGCAGGTGGAGGCAGAGCGGCGGAAACGGGCCACAGTT  
CTAGAGTCTGAGGGGACCCGAGAGTCGGCCATCAATGTGGCAGAAGGGAAGAAACAGGCCCAGATCCTGGCCTCC  
GAAGCAGAAAAGGCTGAACAGATAAATCAGGCAGCAGGAGAGGCCAGTGCAGTTCTGGCGAAGGCCAAGGCTAAA  
GCTGAAGCTATTGGAATCCTGGCTGCAGCTCTGACACAACATAATGGAGATGCAGCAGCTTCACTGACTGTGGCC  
GAGCAGTATGTCAGCGCGTTCTCCAAACTGGCCAAGGACTCCAACACTATCCTACTGCCCTCCAACCCTGGCGAT  
GTCACCAGCATGGTGGCTCAGGCCATGGGTGTATATGGAGCCCTCACCAAAGCCCCAGTGCCAGGGACTCCAGAC  
TCACTCTCCAGTGGGAGCAGCAGAGATGTCCAGGGTACAGATGCAAGTCTTGATGAGGAACCTGATCGAGTCAAG  
ATGAGTTAGTGGAGCTGGGCTTGGCCAGGGAGTCTGGGGACAAGGAAGCAGATTTTCTGATTCTGGCTCTAGCT  
TCCCTGCCAAGATTTTGGTTTTTATTTTTTTTATTTGAACCTTAGTCGTGTAATAAACTCACCAGTGGCAAACCTG  
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2676**

MLARAARGTGALLLRGSLASGRAPRRASSGLPRNTVVLFVPOQEAWVVERMGRFHRILEPGLNILIPVLDRIY  
VQSLKEIVINVPEQSAVTLDNVTLQIDGVLYLRIMDPYKASYGVEDPEYAVTQLAQTMRSELGKLSLDKVFRE  
ESLNASIVDAINQAADCWGIRCLRYEIKDIHVPPRVKESMQMQVEAERRKRATVLESEGTRESAINVAEGKKQAO  
ILASEAEKAEQINQAAGEASAVLAKAKAKAEAIRILAAALTQHNGDAAASLTVAEQYVSFAFSKLAKDSNTILLPS  
NPGDVTSMVAQAMGVYGALTKAPVPGTPDSLSSGSSRDVQGTASLDEELDRVKMS

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**FIGURE 2677**

GGGCGGCCGGCCAATGCCGGACCGCTTCGGCACCGCCCGCCGATCCCTCCACCCGTGGGCCGGCAATGGCGGGC  
GCAGTTTCGCTCTTGGGTGTGGTGGGGCTGCTGCTTGTGTCTGCGCTGTCCGGGGTCCTAGGAGACCGCGCCAAT  
CCCGACCTCCGGGCACACCCAGGGAACGCAGCCACCCCGGCTCTGGAGCCACGGAACCCCGGCGGCGACACCG  
CTCAAGGATCAACGCGAGCGGACCCGGGCCGGGTGCTGCCTCTGGGGGCGCTGTACACCGCGGCCGTGCGGGCT  
TTTGTGCTGTACAAGTGTTCAGGGGAAAGATGAAACTGCGGTTCTCCACGAGGAGGCAAGCAAGCAGCAGCCA  
CTGCAGTCAGGTGGGTTTAGCAGAAGTCTGTGCTGGGTGCGGGGAGTTTAGGGGACAGCAGAAGATACATAACCA  
CTTCTGCCCCCTTTTTTCCCTTATCCCCAGAGCAACAGCTGGCCAGTTGACACAACAGCTGGCCAGACAGAGC  
AGCACCTGAACAACCTGATGGCCAGCTGGACCCCTTTTTGAGCGGTGAGGAGAGCAATGATTCTGTGAATTTT  
TGGGGAATTTGTGGCAGGAGGGAGGAATGGGGACATAGGTTGGGAGCCACTGAGTGGACATTTCTTCAGTGTGAC  
TACTCTGGCTGGAGCCCAGCAGGAGCTTCTGAACATGAAGCTATGGACCATCCACGAGCTGCTGCAAGATAGCAA  
GCCGGACAAGGATATGGAGGCTTCAGAACCAGGTGAAGGCTCGGGAGGCGAGTCTGCTGGAGGTGGAGACAAAGT  
CTCTGAAACTGGAACATTCCTGATCTCTCCCCACACAGAGGCCAGCAGACCTCTTCCTGAGGACTTCTGTTTAAA  
GGAGGACGAGGAGGAGATTGGTGACAGTCAGGCCTGGGAGGAGCCCAAACTGGAGCACAGAGACATGGAACCT  
AGCTACTTCTGGGAGGTGGGGCGGGGACTACGGAGAAGGTGCAGCCAGGCTGTGGCAAAGGGCCCCAGTCACAG  
CCTTGGCTGGGAAGGAGGGACGACAGCTGAAGGTCGACTAAAACAAAGTCTGTTTTCATG

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**FIGURE 2678**

MAGAVSLLGVVGLLLVSALSGVLGDRANPDLRAHFGNAHPGSGATEPRRRPPLKDQRETRAGSLPLGALYTAA  
VAAFVLYKCLQGKDETAVLHEEASKQQPLQSGGFSRSLCWVGGV

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**FIGURE 2679**

AGTGTGATCCCTCAGCCAGGGCATGGAGCTCTCCTGCCCGGTTTCGGGTGCCCGGTGCAAGAGCAGCGTGCCC  
GCTGGGAGCGGAAACGCGCCTGCACCGCCCCGGGAGCTGCTAGAGACCGAGCGGCGCTACCAAGAACAGCTGGGGC  
TGGTGGCCACGTACTTTTTGGGGATCCTGAAAGCCAAGGGGACCCTGCGACCACCTGAGCGCCAGGCCCTGTTTG  
GCTCCTGGGAGCTCATCTACGGCGCCAGCCAGGAGCTGCTTCCCTACCTGGAAGGAGGATGCTGGGGCCAAGGGC  
TGGAGGGCTTCTGCCGCCACTTGGAGCTCTATAACCAATTTGCTGCCAACTCAGAGAGGTCCCAGACCACCTGCG  
AGGAGCAGCTAAAGAAAAATAAAGGTTTCCGGAGGTTTGTACGGCTTCAGGAAGGCCGCCCTGAGTTTGGGGGCC  
TTCAGCTCCAGGACCTGCTCCCTCTGCCTCTGCAACGGCTCCAGCAGTATGAGAATCTCGTCGTAGCTTTGGCTG  
AAAAACAGGTCCCAACAGCCCTGACCATCAACAGCTCACACCTGTCTTCCCTCATGAGAAGCTACTGCTTATG  
TCCACAGACCAGGAGGAGCTGTCACGCTGGTACCACAGTCTGACTTGGGCTATCAGCAGCCAGAAAACTAGAGG  
AATCTTATAGATTCCAGAACTCAGGATACCTCAGGATAGGTTCACAGCCAAGAGTACAAAGGAATCTTCAGTACT  
GAACAAACAGAACCCCTTCATGATTTGACAAAGGTCACCTTCTGTTTGCCTGGACCAAGCTACTCCAGATCATCT  
GACCAACTCTTAAAAATCACGGCCAGGCACAGTGGCTCATGCCTGTAATCCCAGCACCTTTGGGAAGCAGAGGTGG  
CAGGATCATTCCAGCCCAGGAGTTCAAGACCAGCCTGGGCAACACAGTGAGTGAGACCCTGTCTCTATTTAAGAA  
AAAAATAATTAAGAAATTTTATTAAGAAAGAAATCAGGAAACCAAGTCCAACCCAACTAAACCTCAAATGAACC  
AGCCCCTAACACAGATGAGGGGATTTGGGACTGATAAGCTCTGTGCTGTGTCCATGGCCCCGCATTTATCAAGGC  
TGCAGCTTTGTAAATGTGGCTATTTTTATGTTGTGTATAGTTTCTATCATTTATTTTTCCACTGGATTTGAGTAA  
AGTTTTTTTTCTTTTTTTGGGAAAGACCCTTCTGTCTCAGTTTTGCTATGAGAAAAGGGATTTTTGGGCCCTGA  
ACGCGGGCATGCTGGTGGCCTCAGGAATACGAGGAAAAGAGCTGGAGCTCCCTCTATCTTCTCTGCTGTACACT  
GGAAGGCAGCCTCTTTTTGTCTTAATAAGGACAGCTCTCAAGAAGGCCAGTTGTCCTTAGGCACCTAGTATGG  
GTGTGTACAACCAACTAGGATCGAAAAACACACAGGAGCACTCCATCATGAAAACAGACTTTGTTTTAGTCGAC  
CTTCAGCTGTCTGCTCCCTCCTTCCCAGCCAAGGCTGTGACTGGGGCCCTTTGCCACAGCCTGGCTGCACCTTCTCC  
GTAGTCCCCGCCACCTCCCAGGAAGTAGCTAGGTTCCATGTCTCTGTGCTCCAGTTTGTGGGCTCCTCCCAGG  
CCTGACTGTACCAATCTCCTCCTCGTCTCCTTTAAACAGAAGTCTCAGGAAGAGGTCTGCTGGCCTCTGTGT  
GGGGAGAGATCAGGAATGTCCAGTTTCAGAGACTTTGTCTCCACCTCCAGCAGACTCGCCTCCCCGAGCCTTCAC  
CTGGTTCTGAAGCCTCCATATCCTTGTCCGGCTTGCTATCTTGACAGCAGCTCGTGGATGGTCCATAGCTTTCATGT  
TCAGAAGCTCCTGCTGGGCTCCAGCCAGAGTAGTCACACTGAAGAAATGTCCACTCAGTGGCTCCCAACCTATGT  
CCCCATTCTCCTCCTGCCACAAATTCCTCAAAAATTCACAGAATCATTGCTCTCCTCACCAGCTCAAAAAGGGG  
GTCCAGCTGGGCCATCAGGTTGTTTCAGGTGCTGCTCTGTCTGGGCCAGCTGTTGTGTCAACTGGGCCAGCTGTTG  
CTCTGGGGATAAGGGAAAAAGGGGGCAGAGTGTTATGTATCTTCTGCTGTCCCCTAACTCCCCCGACCCAG  
CACAGACTTCTGCTAAACCCACCTGACTGCAGTGGCTGCTGCTTGTCTGCTCCTCGTGGAGAACCGCAGTTTCA  
TCTTTCCCTGTTGTGGAAGAAGGAAAGGGCAGTACTGAAGCAACAAGGTTCTGCTCCATCACCTCAGTCTCCAG  
AGCCAGCCAAGAGAGAGTGCAATTTGAGATGGAGACAGTGATTGGGTTTTTACCTCAGAGAATCACAATCCTAGT  
CTATCTAGCTCCTCACCACAGATATGAAGCGAGCTCCTATGTCCCACACATGGTCAGTTTGTGTGAAACACCTCCA  
GGAATGAGCAACTCCCTCCGTTTGAAAAAGCTCTGGTGGCTGAGTGCTGTGGCTCACACCTGTAATCCCAGCA  
CTTCGGGAAGCCAAGGGCCTCCTCCCAAGGAGAACATGAGACCACTTCATATCTGGAACCTCTAGAAACACTGGCT  
GCAGCAATCAACCTCCTGTGCCAAGGCTGGCCCCACTCTTGTAGCATGGACACTGCTAGCTGGGTTCAAATCCCA  
GCTCCAGCAGTTGCCAGCGCTGGGTGACCTCGAGCAAGTGACTACTCCTCCTGAGTGTAGGAGAACTAAATGT  
GATAGTCAATTTTACAGTTCACCACACGCTCTTCACATCCGTTACCTCCCTGGATCCTCAAAATAACCTCATAA  
TATTGGAAGGCC

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**FIGURE 2680**

TGCTGCTCTCCTCCCGCTCCGTCCTCCTCGCCTGCCACCGGTGCACCCAGTCCGCTCACCCAGCCCAGTCCGTCC  
GGTCCTCACCGCCTGCCGGCCGGCCCCACCCCCACCGCAGGCCATGGACGCCATCAAGAAGAAGATGCAGATGCT  
GAAGCTGGACAAGGAGAACGCCATCGACCGCGCCGAGCAGGCCGAAGCCGACAAGAAGCAAGCTGAGGACCGCTG  
CAAGCAGCTGGAGGAGGAGCAGCAGGCCCTCCAGAAGAAGCTGAAGGGGACAGAGGATGAGGTGGAAAAGTATT  
TGAATCCGTGAAGGAGGCCCAGGAGAACTGGAGCAGGCCGAGAAGAAGGCCACTGATGCTGAGGCAGATGTGGC  
CTCCCTGAACCGCCGATTTCAGCTGGTTGAGGAGGAGCTGGACCGGGCCCAGGAGCGCTGGCTACAGCCCTGCA  
GAAGCTGGAGGAGGCCGAGAAGGCGGCTGATGAGAGCGAGAGAGGAATGAAGGTCATCGAAAACCGGGCCATGAA  
GGATGAGGAGAAGATGGAACCTGCAGGAGATGCAGCTGAAGGAGGCCAAGCACATCGCTGAGGATTCAGACCGCAA  
ATATGAAGAGGTGGCCAGGAAGCTGGTGATCCTGGAAGGAGAGCTGGAGCGCTCGGAGGAGAGGGCTGAGGTGGC  
CGAGAGCCGAGCCAGACAGCTGGAGGAGGAACCTCGAACCATGGACCAGGCCCTCAAGTCCCTGATGGCCTCAGA  
GGAGGAGTATTCCACCAAAGAAGATAAATATGAAGAGGAGATCAAACCTGTTGGAGGAGAAGCTGAAGGAGGCTGA  
GACCCGAGCAGAGTTTGCCGAGAGGTCTGTGGCAAAGTTGGAGAAAACCATCGATGACCTAGAAGAGACCTTGGC  
CAGTGCCAAGGAGGAGAACGTCGAGATTCACCAGACCTTGGACCAGACCCTGCTGGAACCTCAACAACCTGTGAGG  
GCCAGCCCCACCCCCAGCCAGGCTATGGTTGCCACCCCAACCCAATAAACTGATGTTACTAGCCTCTC

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**FIGURE 2681**

MDAIKKKMQLKLDKENAIDRAEQAEADKKQAEDRCKQLEEEQQALQKKLKGTEDEVEKYSESVKEAQEKLEQAE  
KKATDAEADVASLNRRIQLVEEEEDRAQERLATALQKLEEAKEAADESERGMKVIENTRAMKDEEKMELQEMQLKE  
AKHIAEDSDRKYEEVARKLVILEGELERSEERA EVAESRARQLEEEELRTMDQALKSLMASEEEYSTKEDKYEEI  
KLLEEKLEAETRAEFAERSVAKLEKTIDDL EETLASAKEENVEIHQTLDQTILLELNNL

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FIGURE 2682A

CCCCGAGAAGCGGGCGGGGCGGGCGGGCGGGCGGGCGGCGAGGCCAGGCAGCGCAGGTATAGCCAGGCTGGAGA  
AAAGAAGCTGCCACCATGTTGCACTTTTCACTGAAGATCAGCATTGGGAATGTGGTGAAGACGATGCAGTTTGAG  
CCGTCTACCATGGTGTACGACGCCCTGCCGCATCATTCTGTAGCGGATCCCAGAGGCCCCAGCTGGTCTCCCAGC  
GACTTTGGGCTCTTTCTGTGATGATGACCCCAAAAAGGGTATATGGCTGGAGGCTGGGAAAGCTTTGGACTAC  
TACATGCTCCGAAATGGGGACACTATGGAGTACAGGAAGAAACAGAGACCCCTGAAGATCCGTATGCTGGATGGA  
ACTGTGAAGACGATCATGGTGGATGACTCTAAGACTGTCACTGACATGCTCATGACCATCTGTGCCCCGATTGGC  
ATCACCATCATGATGAATATTTCATTGGTTCGAGAGCTGATGGAAGAGAAAAAGGAGGAAATAACAGGGACCTTA  
AGAAAGGACAAGACATTGCTGCGAGATGAAAAGAAGATGGAGAACTAAAGCAGAAATTGCACACAGATGATGAG  
TTGAACTGGCTGGACCATGGTTCGGACACTGAGGGAGCAGGGTGTAGAGGAGCACGAGACGCTGCTGCTGCGGAGG  
AAGTTCTTTTACTCAGACCAGAATGTGGATTCCCGGGACCTGTACAGCTGAACCTCCTGTATGTGCAGGCACGA  
GATGACATCCTGAATGGCTCCACCCCTGTCTCCTTTGACAAGGCCTGTGAGTTTGCTGGCTTCCAATGCCAGATC  
CAGTTTGGGCCCCACAATGAGCAGAAGCACAAGGCTGGCTTCCTTGACCTGAAGGACTTCCTGCCCAAGGAGTAT  
GTGAAGCAGAAGGGAGAGCGTAAGATCTCCAGGCACACAAGAATTGTGGGCAGATGAGTGAGATTGAGGCCAAG  
GTCCGCTACGTGAAGCTAGCCGTTCTCTCAAGACTTACGGTGTCTCCTTCTTCTGGTGAAGGAAAAAATGAAA  
GGGAAGAACAAGCTAGTGCCAGGCTTCTGGGCATCACCAAGGAGTGTGTGATGCGAGTGGATGAGAAGACCAAG  
GAAGTGATCCAGGAGTGAACCTCACCAACATCAACGCTGGGCTGCGTCTCCCCAAAAGCTTCACCCCTGGATTTT  
GGAGATTACCAAGATGGCTATTACTCAGTACAGACAAGTGAAGGGGAGCAGATTGCACAGCTCATTGCCGGCTAC  
ATCGATATCATCCTGAAGAAGAAAAAAGCAAGGATCACTTTGGGCTGGAAGGAGATGAGGAGTCTACTATGCTG  
GAGGACTCAGTGTCCCCAAAAAGTCAACAGTCTGTCAGCAGCAATACAACCGGGTGGGGAAGTGGAGCATGGC  
TCTGTGGCCCTGCTGCCATCATGCGCTCTGGAGCCTCTGGTCTGAGAATTTCAGGTGGGCAGCATGCCCCCT  
GCCCAGCAGCAGATTACCAGCGGCCAGATGCACCGAGGACACATGCCTCCTTGACTTCAGCCCAGCAGGCACTC  
ACTGGAACCATTAAGTCCAGCATGCAGGCCGTGCAGGCTGCCAGGCCACCCCTGGATGACTTTGACACTCTGCCG  
CCTCTTGCCAGGATGCTGCCTCTAAGGCCTGGCGTAAAAACAAGATGGATGAATCAAAGCATGAGATCCACTCT  
CAGGTAGATGCCATCACAGCTGGTACTGCGTCTGTGGTGAACCTGACAGCAGGGGACCCTGCTGAGACAGACTAT  
ACCGCAGTGGGCTGTGCAGTCACCACAATCTCCTCCAACCTGACGGAGATGTCCCGTGGGGTGAAGCTGCTGGCT  
GCCTTGCTGGAGGACGAAGCGGCAGTGGTTCGGCCCTGTTGCAGGCAGCAAAGGGCCTTGCGGGAGCAGTGTCA  
GAACTGCTGCGCAGTGCCCAACCAGCCAGTGTGAGCCCCGTGAGAACCTGCTGCAAGCAGCTGGGAACGTGGGC  
CAGGCCAGTGGGGAGCTGTTGCAACAAATTGGGGAAAGTGATACTGACCCCCACTTCCAGGATGCGCTAATGCAG  
CTCGCCAAAGCTGTGGCAAGTGTGTCAGCTGCCCTGGTCTCAAGGCCAAGAGTGTGGCCAGCGGACAGAGGAC  
TCGGGACTTCAGACCCAAGTTATTGCTGCAGCAACACAGTGTGCCCTATCCACTTCCCAACTAGTGGCCTGTACT  
AAGGTGGTGGACCTACAATCAGCTCACCTGTCTGCCAAGAGCAACTGGTGGAGGCTGGACGACTGGTAGCCAAA  
GCCGTGGAGGGCTGTGTGTCTGCCTCCCAGGCAGCTACAGAGGATGGGCAACTGTTGCGAGGGGTAGGAGCAGCA  
GCCACAGCTGTACCCAGGCCCTAAATGAGCTGTGTCAGCATGTGAAAGCCCATGCCACAGGGGCTGGGCCTGCT  
GGCCGTTATGACCAGGCTACTGACACCATCCTAACCGTCACTGAGAACATCTTTAGCTCCATGGGTGATGCTGGG  
GAGATGGTGGGACAGGCCCGCATCCTGGCCCAAGCCACATCTGACCTGGTCAATGCCATCAAGGCTGATGCTGAG  
GGGGAAGTGATCTGGAGAACTCCCGCAAGCTCTTAAGTGTGCCAAGATCCTAGCTGATGCCACAGCCAAGATG  
GTAGAGGCTGCCAAGGGAGCAGCTGCCACCCCTGACAGTGAGGAGCAGCAGCAGCGGCTGCGGGAGGCAGCTGAG  
GGGCTGCGCATGGCCACCAATGCAGCTGCGCAGAATGCCATCAAGAAAAAGCTGGTGCAGCGCCTGGAGCATGCA  
GCCAAGCAGGCTGCAGCCTCAGCCACACAGACCATCGCTGCAGCTCAGCACGCAGCCTTACCCCCAAAGCCTCT  
GCCGGCCCCCAGCCCTGCTGGTGCAGAGCTGCAAGGCAGTGGCAGAGCAGATTCCACTGCTGGTGCAGGGCGTC  
CGAGGAAGCCAAGCCCAGCCTGACAGCCCCAGCGCTCAGCTTGCCCTCATTGCTGCCAGCCAGAGCTTCTGTCAG  
CCAGGTGGGAAGATGGTGGCAGCTGCAAGGCCTCAGTGCCAACGATTACAGGACCAGGCTTCAGCCATGCAGCTG  
AGTCAGTGTGCCAAGAACCTGGGCACCGCGCTGGCTGAACTCCGGACGGCTGCCCAGAAGGCTCAGGAAGCATGT  
GGACCTTTGGAGATGGATTCTGCACTGAGTGTGGTACAGAATCTAGAGAAAGATCTACAGGAAGTGAAGGCAGCA  
GCTCGAGATGGCAAGCTTAAACCTTACCTGGGGAGACAATGGAGAAGTGTACCCAGGACCTGGGCAACAGCACC  
AAAGCCGTGAGCTCAGCCATCGCCCAGCTACTGGGAGAGGTTGCCAGGGCAATGAGAATTATGCAGGTATTGCA  
GCTCGGGATGTGGCAGGTGGGCTGCGGTCACTGGCCAGGCCGCTAGGGGAGTCTGCTGCACTGACGTGAGATCCT  
GCAGTGCAGGCCATTGTACTTGATACGGCCAGTGTGTGCTGGACAAGGCCAGCAGCCTCATTGAGGAGGCGAAA



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FIGURE 2682B

AAGGCAGCTGGCCATCCAGGGGACCCTGAGAGCCAGCAGCGGCTTGCCCAGGTGGCTAAAGCAGTGACCCAGGCT  
CTGAACCGCTGTGTGTCAGCTGCCTACCTGGCCAGCGCATGTGGATAATGCCCTGAGGGCAGTTGGAGATGCCAGC  
AAGCGACTCCTGAGTGACTCGCTTCCTCCTAGCACTGGGACATTTCAAGAAGCTCAGAGCCGGTTGAATGAAGCT  
GCTGCTGGGCTGAATCAGGCAGCCACAGAACTGGTGCAGGCCTCTCGGGGAACCCCTCAGGACCTGGCTCGAGCC  
TCAGGCCGATTTGGACAGGACTTCAGCACCTTCCTGGAAGCTGGTGTGGAGATGGCAGGCCAGGCTCCGAGCCAG  
GAGGACCGAGCCCAAGTTGTGTCCAACCTGAAGGGCATCTCCATGTCTTCAAGCAAACCTTCTTCTGGCTGCCAAG  
GCCCTGTCCACGGACCCTGTGCCCCTAACCTCAAGAGTCAGCTGGCTGCAGCTGCCAGGGCAGTAACTGACAGC  
ATCAATCAGCTCATCACTATGTGCACCCAGCAGGCACCCGGCCAGAAGGAGTGTGATAACGCCCTGCGGGAATTG  
GAGACGGTCCGGGAACCTCTGGAGAACCCAGTCCAGCCCATCAATGACATGTCTTACTTTGGTTGCTGGACAGT  
GTAATGGAGAACTCAAAGGTGCTGGGCGAGGCCATGACTGGCATCTCCCAAAATGCCAAGAACGGAAACCTGCCA  
GAGTTTGGAGATGCCATTTCCACAGCCTCAAAGGCACCTTTGTGGCTTCACCGAGGCAGCTGCACAGGCTGCATAT  
CTGGTTGGTGTCTCTGACCCCAATAGCCAAGCTGGACAGCAAGGGCTAGTGGAGCCACACAGTTTGCCCGTGCA  
AACCAGGCAATTCAGATGGCTGCCAGAGTTTGGGAGAGCCTGGCTGTACCCAGGGCCAGGTGCTCTCTGCAGCC  
ACCATTGTGGCTAAACACACCTCTGCACTGTGTAAACAGCTGTGCGCTGGCTTCTGCCCCGTACCACCAATCCTACT  
GCCAAGCGCCAGTTTGTACAGTCAGCCAAGGAGGTGGCCAACAGCACAGCTAATCTTGTCAAGACCATCAAGGCG  
CTAGATGGGGCTTCACAGAGGAGAACCGTGCCAGTGCCGAGCAGCAACAGCCCCCTCTGCTGGAGGCTGTGGAC  
AATCTGAGTGCTTTGCGTCCAACCTGAGTTCTCCAGCATTCTGCCCAGATCAGCCCTGAGGGTCCGGCTGCC  
ATGGAGCCCATGTGATCTCTGCCAAGACAATGTTAGAGAGTGCCCGGGGACTCATCCAGACAGCCCGGGCCCTC  
GCAGTCAATCCCGGGACCCCCGAGCTGGTCCGGTGTGCTGGCCGGCCACTCCCGTACTGTCTCAGACTCCATCAAG  
AAGCTAATTACAAGCATGAGGGACAAGGCTCCAGGGCAGCTGGAGTGTGAAACGGCCATTGCAGCTCTGAACAGT  
TGCTACGGGACCTAGACCAGGCTTCCCTCGCTGCAGTCAGCCAGCAGCTTGCTCCCCGTGAGGGAATCTCTCAA  
GAGGCCTTGCACTCAGATGCTCACTGCAGTCCAGAGATCTCCCATCTCATTGAGCCGCTGGCCAATGCTGCC  
CGGGCTGAAGCTCCCAGCTGGGACACAAGGTGTCCAGATGGCGCAGTACTTTGAGCCGCTCACCTGGCTGCA  
GTGGGTGCTGCCAAGACCCTGAGCCACCCGCAGCAGATGGCACTCCTGGACCAGACTAAAACATTGGCAGAG  
TCTGCCCTGCAGTTGCTATACACTGCCAAGGAGGCTGGTGGTAACCCAAAGCAAGCAGCTCACACCCAGGAAGCC  
CTGGAGGAGGCTGTGCAGATGATGACCGAGGCCGTAGAGGACCTGACAACAACCTCAACGAGGCAGCCAGTGCT  
GCTGGGGTCTGGGTGGCATGGTGGACTCCATCACCCAGGCCATCAACCAGCTAGATGAAGGACCAATGGGTGAA  
CCAGAAGGTTTCCTTCGTGGATTACCAAAACAATATGGTGGGACAGCCAAGGCCATTGCAGTGACCGTTTCAGGAG  
ATGGTTACCAAGTCAAACACCAGCCAGAGGAGCTGGGCCCTCTTGCTAACCAGCTGACCAGTGACTATGGCCGT  
CTGGCCTCGGAGGCCAAGCCTGCAGCGGTGGCTGTGAAAATGAAGAGATAGGTTCCCATATCAAACACCGGGTA  
CAGGAGCTGGGCCATGGCTGTGCCGCTCTGGTCACCAAGGCAGGCGCCCTGCAGTGCAGCCCCAGTGATGCCTAC  
ACCAAGAAGGAGCTCATAGAGTGTGCCCGGAGAGTCTCTGAGAAGGTCTCCACGTCCTGGCTGCGCTCCAGGCT  
GGGAATCGTGGCACCCAGGCCTGCATCACAGCAGCCAGCGCTGTGTCTGGTATCATTGCTGACCTCGACACCACC  
ATCATGTTGCCACTGCTGGCAGCTCAATCGTGAGGGTACTGAACTTTCGCTGACCACCGGGAGGGCATCCTG  
AAGACTGCGAAGGTGCTGGTGGAGGACACCAAGGTCTGGTGAAAACGCAGCTGGGAGCCAGGAGAAGTTGGCG  
CAGGCTGCCAGTCTCCGTGGCGACCATCACCCGCTCGCTGATGTGGTCAAGCTGGGTGCAGCCAGCCTGGGA  
GCTGAGGACCCTGAGACCCAGGTGGTACTAATCAACGCAGTGAAAGATGTAGCCAAAGCCCTGGGAGACCTCATC  
AGTGCAACGAAGGCTGCAGCTGGCAAAGTTGGAGATGACCCTGCTGTGTGGCAGCTAAAGAACTCTGCCAAGGTG  
ATGGTGACCAATGTGACATCATTGCTTAAGACAGTAAAGCCGTGGAAGATGAGGCCACCAAGGCACTCGGGCC  
CTGGAGGCAACCACAGAACACATACGGCAGGAGCTGGCGGTTTTCTGTTCCCCAGAGCCACCTGCCAAGACCTCT  
ACCCCAAGACTTTCATCCGAATGACCAAGGGTATCACCATGGCAACCGCCAAGGCCGTTGCTGCTGGCAATTCC  
TGTCGCCAGGAAGATGTCATTGCCACAGCCAATCTGAGCCGCGTGCTATTGCAGATATGCTTCGGGCTTGCAAG  
GAAGCAGCTTACCACCCAGAAGTGGCCCTGATGTGCGGCTTCGAGCCCTGCACTATGGCCGGGAGTGTGCCAAT  
GGCTACCTGGAAGTGTGACCATGTACTGCTGACCCTGCAGAAGCCAAGCCAGAAGTGAAGCAGCAGTTGACA  
GGACATTCAAAGCGTGTGGCTGGTTCCGTCACTGAGCTCATCCAGGCTGCTGAAGCCATGAAGGGAACAGAATGG  
GTAGACCCAGAGGACCCACAGTCAATTGCTGAGAATGAGCTCCTGGGAGCTGCAGCCGCCATTGAGGCTGCAGCC  
AAAAAGCTAGAGCAGCTGAAGCCCCGGGCCAAACCAAGGAGGCAGATGAGTCCTTGAACTTTGAGGAGCAGATA  
CTAGAAGCTGCCAAGTCCATTGCAGCAGCCACCAAGTGCAGTGGTAAAGGCTGCGTCCGCTGCCAGAGAGAATA

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**FIGURE 2682C**

GTGGCCCAAGGGAAGGTGGGTGCCATTCCAGCCAATGCACTGGACGATGGGCAGTGGTCCCAGGGCCTCATTCT  
GCTGCCCCGATGGTGGCTGCGGCCACCAACAATCTGTGTGAGGCAGCCAATGCAGCTGTACAAGGCCATGCCAGC  
CAGGAGAAGCTCATCTCATCAGCCAAGCAGGTAGCTGCCTCCACAGCCCAGCTCCTTGTGGCCTGCAAGGTCAAG  
GCTGACCAGGACTCGGAGGCAATGAAACGACTTCAGGCTGCTGGCAACGCAGTGAAGCGAGCCTCAGATAATCTG  
GTGAAAGCAGCACAGAAGGCTGCAGCCTTTGAAGAGCAGGAGAATGAGACAGTGGTGGTGAAGAGAAGATGGTT  
GGCGGCATTGCCCAGATCATCGCAGCACAGGAAGAAATGCTTCGGAAGGAACGAGAGCTGGAAGAGGCGCGGAAG  
AAACTGGCCCAGATCCGGCAGCAGCAGTACAAGTTTCTGCCTTCAGAGCTTCGAGATGAGCACTAAAGAAGCCTC  
TTCTATTTAATGCAGACCCGGCCCAGAGACTGTGCGTGCCACTACCAAAGCCTTCTGGGCTGTGCGGGCCCCAAC  
TGCCCAACCCCAGCACTCCCCAAAGTGCTGCCAAACCCCAGGGCCTGGCCCCGCCAGTCCCGCAGTACATCCC  
CTGTCCCCTCCCCAACCCCAAGTGCTTCATGCCCTAGGGCCCCCAAGTGCTGCCCTCCCCAGAGTATTAAC  
GCTCCAAGAGTATTATTAACGCTGCTGTACCTCGATCTGAATCTGCCGGGGCCCCAGCCCACTCCACCCTGCCAG  
CAGCTTCCAGCCAGTCCCCACAGCCTCATCAGCTCTCTTCACCGTTTTTTGATACTATCTTCCCCCACCCCCAGC  
TACCCATAGGGGCTGCAGAGTTATAAGCCCCAAACAGGTCATGCTCCAATAAAAATGATTCTACCTACAAAAAA  
AAAAAAAAAAAA

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FIGURE 2683

MVALSLKISIGNVVKTMQFEPSTMVYDACRIIRERIPEAPAGPPSDFGLFLSDDDPKKGIWLEAGKALDYMLRN  
GDTMEYRKQKQRLKIRMLDGTVKTIMVDDSKTVDMLMTICARIGITNHDEYSLVRELMEEEKKEEITGTLRKDKT  
LLRDEKKMEKLKQKLHTDDELNWLHDGRTLREQGVEEHETLLLRKFFYSQONVDSRDPVQLNLLYVQARDDILN  
GSHPVSFDKACEFAGFQCQIQFGPHNEQKHKAGFLDLKDFLPKEYVKQKGERKIFQAHKNCQGMSEIEAKVRYVK  
LARSCLKTYGVSSFFLVKEKMKGKNKLVPRLLGITKECVMRVDEKTKKEVIQEWNLNLIKRWAAASPKSFTLDFGDYQD  
GYYSVQTTEGEQIAQLIAGYIDII LKKKSKDHFGLGDEESTMLEDSVSPKKSTVLQQQYNRVGKVEHGSVALP  
AIMRSGASGPENFQVGSMPPAQQQITSGQMRGHMPLTSAQQALTGTINSSMQAVQAAQATLDDFDLPLPLGQD  
AASKAWRKNMDESKHEIHSQVDAITAGTASVVNLTAGDPAETDYTAVGCAVTTISSNLTEMSRGVKLLAALLED  
EGGSGRPLLQAAKGLAGAVSELLRSAQPAEPRQNLQAAGNVGQASGELLQQIGESDTPHFQDALMQLAKAV  
ASAAAALVLKAKSVAQRTEDSGLQTQVIAAATQCALSTSQVLACTKVAPTISSPVCQEQLVLEAGRLVAKAVEGC  
VSASQAATEDGQLLRGVGAATAVTQALNELLOHVKAHATGAGPAGRYDQATDILTVTENIFSSMGDAGEMVGQ  
ARILAQATSDLVNAIKADAEGESDLENSRKLSSAAKILADATAMVEAAKGAAPDSEEQQORLREAAEGLRMA  
TNAQAQNAIKKKLVQRLHAAKQAAASATQTIAAAQHAASPKASAGPQPLLVQSCKAVAEQIPLLVQGVRSQA  
QPDSPSAQLALIAASQSFQPGGKMVAASASVPTIQDQASAMQLSQCAKNLGTALAEALRTAAQKAQEACGPLEM  
DSALSVQNLKDLQEVKAAARDGKLKPLPGETMEKCTQDLGNSTKAVSSAIAQLLGEVAQGNENYAGIAARDVA  
GGLRSLAQAAARGVAALTS DPAVQAIVLDTASDVLKASSLIEEAKKAAGHPGDPESQQRQAQVAKAVTQALNRCV  
SCLPGQRDNDNALRAVGDAKRLSDSLPPSTGTQFEAQSRLEAAAGLNQAATELVQASRGTPQDLARASGRFG  
QDFSTFLEAGVEMAGQAPSQEDRAQVVSNLKGISMSSSKLLLAALKALSTDPAAPNLKSQLAARAVTDSINQLI  
TMCTQAPGQKECDNALRELETVRELLENPVQPINDMSYFGCLDSVMENSKVLGEAMTGISQNAKGNLPEFGDA  
ISTASKALCGFTEAAAQAAVLGVSDPNSQAGQQGLVEPTQFARANQAIQMACQSLGEPGCTQAQVLSAATIVAK  
HTSALCNSCRLASARTTNPTAKRQFVQSAKEVANSTANLVKTIKALDGAFTENRAQCRAATAPLLEAVDNLISAF  
ASNPEFSSIPAQISPEGRAAMEFIVISAKTMLESAGGLIQTARALAVNPRDPPSWSVLAGHSRTVSDSIKKLITS  
MRDKAPGQLECEATAIALNSCLRDLDQASLAASVQQLAPREGISQALHTQMLTAVQEISHLIEPLANAARAEAS  
QLGHKVSQMAQYFEPLTLAAVGAASKTLSHPQQMALLDQTKTLAESALQLLYTAKEAGGNPKQAHTQEALLEEAV  
QMMTEAVEDLTITLNEAASAAGVVGGMVDSITQAINQLDEGPMGEPEGSFVDYQTTMVRTAKAIAVTVQEMVTKS  
NTSPEELGPLANQLTSDYGRLEAKPAAVAAENEEIGSHIKHRVQELGHGCAALVTKAGALQCSPSDAYTKKEL  
IECARRVSEKVSHVLAALQAGNRGTQACITAASAVSGIIADLDTIMFATAGTLNREGTETFADHREGILKTAKV  
LVEDTKVLVQNAAGSQEKLAQAAQSSVATITRLADVVKLGAASLGAEDPETQVVLINAVKDVAKALGDLISATKA  
AAGKVGDDPAVWQLKNSAKVMVTNVTSLLKTVKAVEDEATKGTRALEATTEHIRQELAVFCSPPEPAKTSTPEDF  
IRMTKGITMATAKAVAAGNSCRQEDVIATANLSRRAIADMLRACKEAAYHPEVAPDVRLRALHYGRECANYLEL  
LDHVLLTLQKPSPELKQQLTGHSKRVSAGVTELIQAAEAMKGTWVDPEDPTVIAENELLGAAAIEAAAKKLEQ  
LKPRAKPKADESLNFEEQILEAAKSIAAATSALVKAASAAQRELVAQGVGAIPANALDDGQWSQGLISAARMV  
AAATNNLCEAANAQVGHASQEKLISSAKQVAASTAQLLVACKVKADQDSEAMKRLQAAGNAVKRASDNLVKAAQ  
KAAAFEEQENETVVVKEKMGVGGIAQIIAAQEEMLRKERELEEARKKLAQIRQQQYKFLPSELRDEH

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**FIGURE 2684**

AGACCGGAAAGGGCTCGGGTCATCCCGGCGCCAGGGTCACCTTCCACGGGCTGGCACCTGGGCGCGGGCGCTG  
CCCCGGAGCCGGCCGGGCGGGACCTGGCGCCCAATCCTGGGGGACCCGGTGCCGTGGCCCAGGGGCGGGCCGAGG  
TCCCGGGGGCGGTGCCCTTGGCGGGCCGTCCTCCGGGGCGGTGCCGTGGTGGGCTGGCCCCGCGGCTCCTCCCTCTCT  
GCGGGCCCACTCGCCCTTGGCGGGCGAGCTAATCGTCGGCTCAATGACGACGAGGCCCGACCTTCCCGTCCA  
GGACCTACAGAGACAACCGAAGGAGAGCCCAAGGCGGCTTCTTGTGTGCGCGCCCCACTGAAGCAAGAGCTC  
CCCGGCTCCACTGAAACACCAGCTCATTTAAGCTTTCCCAACGCCCCGGCCCTCCGGGACGATACCTAACAACGA  
CCGGCGCCCGCATCTGGAATAGGCTGGCGAGATACTTAGTATCCGAGGGCTCGGGACTTGGCGCCATCGAGGTCA  
TGGGGACCCAGGATCCAGGGAACATGGGAACCGGCGTCCAGCCTCGGAGCAGATAAGCTGTGCCAAAGAGGATC  
CACAAGTTTATTGCCCTGAAGAGACTGGCGGCACCAAGGATGTGCAGGTTACAGACTGTAAGAGTCCCGAAGACA  
GCCGACCCCAAAAGAGACGGACTGCTGCAATCCGGAGGACTCTGGGCAGCTGATGGTTTCCTATGAGGGTAAAG  
CTATGGGCTACCAGGTGCCCTCCCTTGGCTGGCGCATCTGTCTGGCTCATGAGTTTACAGAGAAGAGGAAACCTT  
TTCAAGCTAACAACGTCTCCCTAAGCAACATGATAAAGCATATAGGCATGGGCTTGAGGTACCTGCAGTGGTGGT  
ACCGGAAGACCCATGTGGAAAAGAAGACACCTTTCATCGACATGATCAATTCTGTACCCCTAAGACAGATTTATG  
GTTGTCCCTTGGGTGGCATCGGGGAGGCACTATTACCCGTGGCTGGAGAGGCCAGTTCTGTGCTTGGCAGCTTA  
ACCTTGAATGTATCAGCACCGGACAGTCATCGCTGACCAAGACAGCAGCCTGCCTGTAGGAGTCTTTGTGTGGG  
ATGTGGAATGAAGGGACGAAGCTCTAGATGTGTCCATCATGTTCTCCATGCGGAATGGACTGGGTGGTGGAG  
ACGATGCCCCAGGGGTTTGTGGAATGAGCCCTTCTGTCTGGAGCGTAGCGGGGAACTGTCCGGGGGCTGCTCCT  
GCATCATCCAACCTTCCAACCCCTACACGATGGCTGTGGCTGCACGAGTCACGGCAGCTACCACGGTAACCCA  
CATCACAGCCTTTGACCCTGACAGCACGGGGCAGCAGGTGTGGCAGGATCTACTTCAGGATGGACAGCTGGACTC  
TCCCACTGGCCAAAGCACCCCTACGAGAAAGGAGTAGGCATTGCTGGAGCTGTGTGTGTTTCAGCAAGTTGCG  
ACCTCGAGGCCAGTGCCGCTGGAGTTTCACTGGCTTGGGACATGCCAGGATCATGTTTGGAGCTAAAGGCCA  
AGTCCACTACAGCGGTATACAAGGTTCTTTGGCCAGGATGGAGATGCAGCACCTGCCCTCAGCCACTATGCACT  
GTGCCGATACGCAGAGTGGGAAGAGAGGATCTCAGCTTGGCAGAGCCCGGTATTGGATGACAGATCACTGCCTGC  
CTGGTACAAATCTGCGCTGTTCAATGAACATACTTCTTGGCTGATGGAGGCACAGTGTGGCTGGAAGTTCTTGA  
GGACTCCCTACCAGAGGAGCTGGGCAGAAACATGTGTACCTCCGCCCCACCCTACGGGACTACGGTCGATTGG  
CTACCTTGAGGGCCAGGAGTACCGCATGTACAACACATATGATGTCCACTTTTATGCTTCCCTTGGCCCTCATCAT  
GCTCTGGCCCAAACTTGAGCTCAGCCTACAGTATGACATGGCTCTGGCCACTCTCAGGGAGGACCTGACACGGCG  
ACGGTACCTGATGAGTGGGGTGATGGCACCTGTGAAAAGGAGGAACGTATCCCCATGATATTGGGGACCCAGA  
TGATGAACCATGGCTCCGCGTCAATGCATATTTAATCCATGATACTGCTGATTGGAAGGACCTGAACCTGAAGTT  
TGTCGTGCAGGTTTATCGGGACTATTACCTCACGGGTGATCAAACTTCTTGAAGGACATGTGGCCTGTGTGTCT  
AGCTGTGATGGAATCTGAAATGAAGTTTGACAAGGACCATGATGGACTCATTGAAAATGGAGGCTATGCAGACCA  
GACCTATGATGGATGGGTGACCACAGGCCCCAGTGCTTACTGTGGAGGGCTGTGGCTGGCAGCTGTGGCTGTGAT  
GGTCCAGATGGCTGCTCTGTGTGGGGCACAGGACATCCAGGATAAGTTTTCTTCTATCCTCAGCCGGGGCCAAGA  
AGCCTATGAGAGACTGCTGTGGAATGGCCGCTATTACAACATATGACAGCAGCTCTCGGCCCTCAGTCTCGTAGTGT  
TATGCTGACCAAGTGTGCTGGACAGTGGTTCTGAAGGCCTGTGGCCTAGGAGAAGGAGACACTGAGGTGTTTCC  
TACCCAACATGTGGTCCGTGCTCTCCAACATATCTTTGAGCTGAACGTCCAGGCCTTTCAGGAGGGGCCATGGG  
GGCTGTGAATGGGATGCAGCCCCATGGTGTCCCTGATAAATCCAGTGTGCAGTCTGATGAAGTCTGGGTGGGTGT  
GGTCTACGGGCTGGCAGCTACCATGATCCAAGAGGGCCTGACTTGGGAGGGCTTCCAGACAGCTGAAGGCTGCTA  
CCGTACCGTGTGGGAGCGCCTGGGTCTGGCCTTCCAGACCCAGAGGCATACTGCCAGCAGCAGTGTTCGGCTC  
ACTGGCCTACATGCGGCCACTGAGCATATGGGCCATGCAGCTAGCCCTGCAACAGCAGCAGCACAAAAAGGCCTC  
CTGGCCAAAAGTCAAACAGGGCACAGGACTAAGGACAGGGCCTATGTTTGGACCAAAGGAAGCCATGGCAAACCT  
GAGCCCAAGAGTGAAGCCGTCTGAACTGTGGGAGGGAAGTGCTAACAGCCCAGCCTCCAGCCTGGCCTTCTCTCCT  
CCCCCTGAACTCCTGCAACCTGAGCCATCAGGACAATCATACCCCTTCCCTTCTCTCCACCAATTGTGCCA  
GTAAATGGGGGTGAGGGTGACCTAGGCAGCATAGAATCACTTATTTATTTCTTCTCCTCACCTGTTCCCTGACT  
GCGTGAAATGTTCAAGGAGGTCAGTTGATTTCCCAAGGTACATTATGTTGTGACAGACACATGGGTACAAATAA  
AAGACCCAGAAAGCC

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**FIGURE 2685 -**

MAVAARVTAATTVTHITAFDPDSTGQQVWQDLLQDQQLDSTPTQKGVGIAGAVCVSSKLRPRGQCRLEFS  
LAWDMPRIMFGAKGQVHYRRYTRFFGQDGAAPALSHYALCRYAEWEERISAWQSPVLDDRSLPAWYKSALFNEL  
YFLADGGTVWLEVLDSLPEELGRNMCHLRPTLRDYGRFGYLEGQEYRMYNTYDVHIFYASFALIMLWPKLELSLQ  
YDMALATLREDLTRRRYLMSGVMAPVKRRNVIPHDIGDPDDEPWLRVNAYLIHDTADWKDLNLKFVLQVYRDYYL  
TGDQNFLKDMWPFVCLAVMESEMKFDKDHGGLIENGGYADQTYDGWVTTGPSAYCGGLWLA AVAVMVQMAALCGAQ  
DIQDKFSSILSRGQEAYERLLWNGRYNYDSSSRPQSRVMSDQCAGQWFLKACGLGEGDTEVFPTQHVVRALQT  
IFELNVQAFAGGAMGAVNGMQPHGVDPKSSVQSDEVWVG VVYGLAATMIQEGLTWEGFQTAEGCYRTVWERLGLA  
FQTPEAYCQQRVFRSLAYMRPLSIWAMQLALQQQHHKASWPKVKQGTGLRTGPMFGPKEAMANLSPE

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**FIGURE 2686**

AAAAAGAAATCAAGAATGCAATTTTATTTACAATAGTCACGCCAAAAATACCTAGAAATAAATTTAACTGAGGAT  
GTAAAGACCTCTACAAGGAGAGTTCAATCGGTAGCGGGAGCGGAGAGCTGACCCAGAGAGCCCTGGGCAGCCC  
CACCTCCGCCGCCGGCCTAGTTACCATCACACCCCGGGAGAAGCCGCAGCTGCCGCAGCCGGCCCCAGTCACCAT  
CACCGCAACTATGAGCAGCGAGGCCGAGACCCAGCAGCCGCCGCCGCTCCCCACGCCGCCGCCGCCCTCAGCG  
CCGCCGACACCCACCCAGCACTGCAGGCAGCGCGCAGGAAGCGGTGGCCCCGGCGGCCTCACATCGGCGGCGC  
CTGCCGGCGGGGACAAGAAGGTCATCGCAACGAAGGTTTTGGGAACAGTAAATGGTTCAGTGTAAAGGAACGGAT  
ATGGTTTCATCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAGACTGCCAGAAAGAAGAATAACCCCA  
GGAAGTACCTTCGCAGTGTAGGAGATGGAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAAAGGTTGCGGAGG  
CAGCAAATGTTACAGGGCCTGGTGGTGTTCAGTTCAAGGCAGTACATATGCAGCAGACCGTAACCATTATAGAC  
GCTATCCACGTCGTAGGGTCTCCACGCAATTACCAGCAAATTACCAGAATAGTGAGAGTGGGGAAAAGAACGA  
GGGATCGGAGAGTGCTCCCGCAGGCCAAGCCCAACAACGCCGGCCCTACCGCAGGCGAAGGTTCCACCTTACTA  
CATGCGGAGACCCATATGGGCGTCGACCACAGTATTCCAACCCTCCTGTGCAGGGTGAAGTGATGGAGGGTGCTGA  
CAACCAGGGTGCAGGAGAACAAGGTAGACCAAGTGCAGGAGTACGATATCGGGGATATAGACCACGATTCCGCAG  
GGGCCCTCCACGCCAAAGACAGCCTAGAGAGGACGGCAATGATGAAGATAAAGAAAATCAAGGAGATGAGACCCA  
AGGTCAGCAGCCACCTCAACGTCGGTACCGCCGCAACTTCAATTGCCGACGCAGACACCCAGAAAACCTAAACC  
ACAAGATGGCAAAGAGACAAAAGCAGCCGATCCACCAGCTGAGAATTCTGTTCACTCCTGAGGCTGAGCGGGGCAG  
GACTGAGTAAATGCCAGCTTACCATCTCTACCATCATCCGGTTTAGTCATCCAACAGGAAGAAATATGAAATTCC  
AGCTATAAGAAATGAACAAAAGATTGGAGCTGAAGACCTTAAGTGCTTGCTTTTTGCCCGTTGACCAGATAAATA  
GAACTATCTGCATTATCTATGCAGCATGGGATTTTTATTTTACCTAAAGACGTCTCTTTTTGGTAATAACA  
AACGTGTTTTTTAAAAAAGCCTGGTTTTTTCAATACGCCTTTAAAGG

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**FIGURE 2687**

MRRPYGRRPQYSNPPVQGEVMEGADNQGAGEQGRPVQRQNTYRGYRPRFRRGPPRQRQFPREDGNDEDKENQGDETQ  
GQQFPQRRYRRNFCRRRHPENPKPQDGKETKAADPPAENSSTPEAERGTE

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**FIGURE 2688**

GAAGAATAACCCAGGAAGTACCTTCGCAGTATTCCAACCCCTCCTGTGCAGGGTGAAGTGATGGAGGGTGCTGAC  
AACCAGGGTGCAGGAGAACAAGGTAGACCAGTGAGGCAGAATACGTATCGGGGATATAGACCACGATTCCGCAGG  
GGCCCTCCACGCCAAAGACAGCCTAGAGAGGACGGCAATGATGAAGATAAAGAAAATCAAGGAGATGAGACCCAA  
GGTCAGCAGCCACCTCAACGTCGGTACCGCCGCAACTTCAATTGCCGACGCAGACACCCAGAAAACCTAAACCA  
CAAGATGGCAAAGAGACAAAAGCAGCCGATCCACCAGCTGAGAATTTCGTCCACTCCTGAGGCTGAGCGGGGCAGG  
ACTGAGTAAATGCCAGCTTACCATCTCTACCATCATCCGGTTTAGTCATCCAACAGGAAGAAATATGAAATTCCA  
GCTATAAGAAATGAACAATAGAACTATCTGCATTATCTATGCAGCATGGGATTTTATTATTTTACCTAAAGAC  
GTCTCTTTTGGTAATAACAAACGTGTTTTTT



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**FIGURE 2689**

AGCGGTGGCTGCCGGGCGTGGTGTGCGGTGGGTGCGTTGGTTTTTGTCTCACCGTTGGTGTCCGTGCCGTTTCAGTT  
GCCCCGCCATGGCTGAGCTGGATCCGTTTCGGCGCCCCCTGCCGGCGCCCCCTGGCGGTCCC GCGCTGGGGAACGGAGT  
GGCCGGCGCCGGCGAAGAAGACCCGGCTGCGGCCTTCTTGGCGCAGCAAGAGAGCGAGATTGCGGGCATCGAGAA  
CGACGAGGCCTTCGCCATCCTGGACGGCGCGCCCCGGGGCCCCAGCCGCACGGCGAGCCGCCGGGGGGTCCGGA  
TGCTGTTGATGGAGTAATGAATGGTGAATACTACCAGGAAAGTAATGGTCCAACAGACAGTTATGCAGCTATTTT  
ACAAGTGGATCGATTGCAGTCAGAGCCTGAAAGTATCCGTAAATGGAGAGAAGAACAATGGAACGCTTGGAAGC  
CCTTGATGCCAATTCTCGGAAGCAAGAAGCAGAGTGGAAGAAAAGGCAATAAAGGAGCTAGAAGAATGGTATGC  
AAGACAGGACGAGCAGCTACAGAAAACAAAAGCAAACAACAGGGCAGCAGAAGAAGCCTTTGTAAATGACATTGA  
CGAGTCGTCCCCAGGCACTGAGTGGGAACGGGTGGCCCGGCTGTGTGACTTTAACCCCAAGTCTAGCAAGCAGGC  
CAAAGATGTCTCCCGCATGCGCTCAGTCCTCATCTCCCTCAAGCAGGCCCCGCTGGTGCACTGAAGAGCCACCCT  
GTGGAACACTACATCTGCAATATCTTAATCCTACTCAGTGAAGCTCTTCACAGTCATTGGATTAATTATGTTGA  
GTTCTTTTGGACCAAACCTTTTGTCTTTAGAGTTGTTTATTGTTGTGATTGCATGTTTCCTTCCTTCAACTGT  
GTTCTCCCTGGCATTTCAGAGAGGAGGGAGAGGAGGAAGAGGAAGGGGAGGGAAGCTTCCCAAGAGTAGCCTCAAC  
CTGTGCTTCTGTGCATTATTCTGAGAATAAATTTCTGTTTCAAACCTGT

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**FIGURE 2690**

MAELDPFGAPAGAPGGPALGNGVAGAGEEDPAAAFQAQSEIAGIENDEAFAILDGGAPGPPHGEPPGGPDAV  
DGVNMGEYYQESNGPTDSYAAISQVDRLQSEPE SIRKWREEQMERLEALDANSRKQEA EWKEKAIKELEEWYARQ  
DEQLQKTKANNRAAEEAFVNDIDESSPGTEWERVERLCDFNPKSSKQAKDVSRMRSVLISLKQAPLVH

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**FIGURE 2691**

GCCACCGCTGTGGTGTCCGGTGGGTCCGGTTGGTTTTTGTCTCACCGTTGGTGTCCGTGCCGTTTCAGTTGCCCGCCA  
TGGCTGAGCTGGATCCGTTCCGGCGCCCCTGCCGGCGCCCCTGCGGGTCCCGCGCTGGGGAACGGAGTGCCCGGCG  
CCGGCGAAGAAGACCCGGCTGCGGCCCTTCTTGGCGCAGCAAGAGAGCGAGATTGCGGGCATCGAGAACGACGAGG  
CCTTCGCCATCCTGGACGGCGGCGCCCCCGGGCCCCAGCCGCACGGCGAGCCGCCGGGGGTCCGGATGCTGTTG  
ATGGAGTAATGAATGGTGAATACTACCAGGAAAGTAATGGTCCAACAGACAGTTATGCAGCTATTTACAAGTGG  
ATCGATTGCAGTCAGAGCCTGAAAGTATCCGTAAATGGAGAGAAGAACAATGGAACGCTTGGAAGCCCTTGATG  
CCAATTCTCGGAAGCAAGAAGCAGAGTGGAAGAAAAGGCAATAAAGGAGCTAGAAGAATGGTATGCAAGACAGG  
ACGAGCAGCTACAGAAAACAAAAGCAAACAACAGGGTGGCAGATGAAGCTTTCTACAAACAACCCCTTCGCTGACG  
TGATTGGTTATGTCACAAACATAAACCATCCTTGCTACAGCCTAGAACAGGCAGCAGAAGAAGCCTTTGTAAATG  
ACATTGACGAGTCGTCCCCAGGCACTGAGTGGGAACGGGTGGCCCGGCTGTGTGACTTTAACCCCAAGTCTAGCA  
AGCAGGCCAAAGATGTCTCCCGCATGCGCTCAGTCCTCATCTCCCTCAAGCAGGCCCGCTGGTGCAGTGAAGAG  
CCACCCGTGGAAACACTACATCTGCAATATCTTAATCCTACTCAGTGAAGCTCTTCACAGTCATTGGATTAATT  
ATGTTGAGTTCTTTTGGACCAAACCTTTTGTCTTTAGAGTTGTTTCATTGTTTGTGATTGCATGTTTCCTTCCTT  
CAACTGTGTTCTCCCTGGCATTTCAGAGAGGAGGGAGAGGAGGAAGAGGAAGGGGAGGGAAGCTTCCCAAGAGTAG  
CCTCAACCTGTGCTTCTGTGCATTATTCTGAGAATAAATTTCTGTTTCAAACCTGT

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**FIGURE 2692**

MAELDPFGAPAGAPGGPALGNGVAGAGEEDPAAAFLAQQESEIAGIENDEAFAILDGGAPGPQPHGEPPGGPDAV  
DGVMNGEYYQESNGPTDSYAAISQVDRLQSEPE SIRKWREEQMERLEALDANSRKQEA EWKEKAIKELEEWYARQ  
DEQLQKTKANNRVADEAFYKQFFADVIGYVTNINHPCYSLEQA AEEAFVNDIDESSPGTEWERVERLCDFNPKSS  
KQAKDVSRMRSVLISLKQAPLVH

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**FIGURE 2693**

GCTTCTGTACTGCCAGGICCGGGTCGGCGGGCTGCACTGCGGATGAGACCGGTGCGACTCATGAAGGTGTTCTGTCA  
CCCGCAGGATACCCGCCGAGGGTAGGGTCGCGCTCGCCCGGGCGGCAGACTGTGAGGTGGAGCAGTGGGACTCGG  
ATGAGCCCATCCCTGCCAAGGAGCTAGAGCGAGGTGTGGCGGGGGCCACGGCCTGCTCTGCCTCCTCTCCGACC  
ACGTGGACAAGAGGATCCTGGATGCTGCAGGGGCCAATCTCAAAGTCATCAGCACCATGTCTGTGGGCATCGACC  
ACTTGGCTTTGGATGAAATCAAGAAGCGTGGGATCCGAGTTGGCTACACCCCAGATGTCCTGACAGATACCACCG  
CCGAACTCGCAGTCTCCCTGCTACTTACCACCTGCCGCCGGTTGCCGGAGGCCATCGAGGAAGTGAAGAATGGTG  
GCTGGACCTCGTGGAAGCCCCCTCTGGCTGTGTGGCTATGGACTCAGCAGAGCACTGTGGGCATCATCGGGCTGG  
GGCGCATAGGCCAGGCCATTGCTCGGCGTCTGAAACCATTCCGGTGTCCAGAGATTCTGTACACAGGGCGCCAGC  
CCAGGCCTGAGGAAGCAGCAGAATTCCAGGCAGAGTTTGTGTCTACCCCTGAGCTGGCTGCCCAATCTGATTTC  
TCGTCTGGCCCTGCTCCTTAACACCTGCAACCGAGGGACTCTGCAACAAGGACTTCTTCCAGAAGATGAAGGAAA  
CAGCTGTGTTTCATCAACATCAGCAGGGGCGACGTCGTAAACCAGGACGACCTGTACCAGGCCTTGGCCAGTGGTA  
AGATTGCAGCTGCTGGACTGGATGTGACGAGCCCAGAACCCTGACCTACAAACCACCCCTCTCCTGACCCTGAAGA  
ACTGTGTGATTCTGCCCCACATTGGCAGTGCCACCCACAGAACCCGCAACACCATGTCCTTGTGGCAGCTAACA  
ACTTGTGGCTGGCCTGAGAGGGGAGCCGATGCCTAGTGAAGCTGAGCCAAACAGTAGAGATGGAGGGC  
CGGGAAGCAAACCGTGCCCTGGTATTGTGACACACCCAGGCTTGATTGGATCCACAGGCAGAGCCAAGGGAA  
GGTGTGATTCTCTGAGGAAAGAGTGATTCTGATATATGTACTTGTACATTGGTGTGGACACATTTCGCCCAA  
AGTATGGTAATTCTATTATTAAATAATTCTCTGAG

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**FIGURE 2694**

MRPVRLMKVFVTRRIPAEGRVALARAADCEVEQWDSDEPIPAKELERGVAGAHGLLCLLSDHVDKRILDAAGANL  
KVISTMSVGIDHLALDEIKKRGIRVGYPDVLDTTAE LAVSLLLTTCCRRLPEAIEEVKNGGWTSWKPLWLCCGYG  
LTQSTVGIIGLGRIGQAIARRLKPFQVQRFYLTGRQPRPEEAAEFQAEFVSTPELAAQSDFIVVACSLTPATEGL  
CNKDDFFQMKKETAVFINISRGDVVNQDDLYQALASGKIAAAGLDVTSPEPLPTNHPLTLKNCVILPHIGSATHR  
TRNTMSLLAANNLLAGLRGEPMPSELKL

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**FIGURE 2695**

AGTGTGAAATCTTCAGAGAAGAATTTCTCTTTAGTTCTTTGCAAGAAGGTAGAGATAAAGACACTTTTTCAAAAA  
TGGCAATGGTATCAGAATTCCTCAAGCAGGCCTGGTTTATTGAAAATGAAGAGCAGGAATATGTTCAAACCTGTGA  
AGTCATCCAAAGGTGGTCCCGGATCAGCGGTGAGCCCCTATCCTACCTTCAATCCATCCTCGGATGTCGCTGCCT  
TGCATAAGGCCATAATGGTTAAAGGTGTGGATGAAGCAACCATCATTGACATTCTAACTAAGCGAAACAATGCAC  
AGCGTCAACAGATCAAAGCAGCATATCTCCAGGAAACAGGAAAGCCCCTGGATGAAACACTTAAGAAAGCCCTTA  
CAGGTACCTTGAGGAGGTGTTTTAGCTCTGCTAAAACTCCAGCGCAATTGATGCTGATGAACCTTCGTGCTG  
CCATGAAGGGCCTTGGAACCTGATGAAGATACTCTAATTGAGATTTTGGCATCAAGAACTAACAAAGAAATCAGAG  
ACATTAACAGGGTCTACAGAGAGGAACCTGAAGAGAGATCTGGCCAAAGACATAACCTCAGACACATCTGGAGATT  
TTCGGAACGCTTTGCTTTCTCTTGCTAAGGGTGACCGATCTGAGGACTTTGGTGTGAATGAAGACTTTGGCTGATT  
CAGATGCCAGGGCCTTGTATGAAGCAGGAGAAAGGAGAAAGGGGACAGACGTAAACGTGTTCAATACCATCCTTA  
CCACCAGAAGCTATCCACAACCTTCGCAGAGTGTTTCAGAAATACACCAAGTACAGTAAGCATGACATGAACAAAG  
TTCTGGACCTGGAGTTGAAAGGTGACATTGAGAAATGCCTCACAGCTATCGTGAAGTGCGCCACAAGCAAACCAG  
CTTTCTTTGCAGAGAAGCTTCATCAAGCCATGAAAGGTGTTGGAACCTCGCCATAAGGCATTGATCAGGATTATGG  
TTTCCCGTTCTGAAATTGACATGAATGATATCAAAGCATTCTATCAGAAGATGTATGGTATCTCCCTTTGCCAAG  
CCATCCTGGATGAAACCAAGGAGATTATGAGAAAATCCTGGTGGCTCTTTGTGGAGGAACTTAAACATTCCCTT  
GATGGTCTCAAGCTATGATCAGAAGACTTTAATTATATATTTTCATCCTATAAGCTTAAATAGGAAAGTTTCTTC  
AACAGGATTACAGTGTAGCTACCTACATGCTGAAAAATATAGCCTTTAAATCATTTTATATTATAACTCTGTAT  
AATAGAGATAAGTCCATTTTTTAAAAATGTTTTCCCAAACCATAAAAACCTATACAAGTTGTTCTAGTAACAAT  
ACATGAGAAAGATGTCTATGTAGCTGAAAATAAAATGACGTCACAAGAC

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**FIGURE 2696**

MAMVSEFLKQAWFIENEEQEYVQTVKSSKGGPGSAVSPYPTFNPSSDVAALHKAIMVKGVD EATI IDILTKRNNA  
QRQQIKAAYLQETGKPLDETLKKALTGHLEEVVLALLKTPAQFDADELRAAMKGLGTDEDTLIEILASRTNKEIR  
DINRVYREELKRD LAKDITS DTSGDFRNALLSLAKGDRSEDFGVNEDLADSDARALYEAGERRKGT DVNVFNTIL  
TTRSYPQLRRVFQKYTKYSKHD MNKVL DLELKGDI EKCLTAIVKCATSKPAFFAEKLHQAMKGVGTRHKALIRIM  
VSRSEIDMNDIKAFYQKMYGISLCQAILDET KG DY EKILVALCGGN



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**FIGURE 2697**

TTTCCGCGCTACCTACAGAGGGGCCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTAAAGGGAACTTTAC  
AATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTT  
AGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTGTAAAAGGAAAAGTAATGGCATCTATATCATAAA  
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTAGTGCTATTGTTGCCATTGAAAACCCTGCTGATGTCAG  
TGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC  
TGGCCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCATGGCTTCTTGTTGTTAC  
TGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACAC  
AGATTCTCCTATGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTG  
GTAGATGCTGGCTCGGGAAGTTCTGCGCATGTGTAGCACGATTTCTATGACCACCCGTGGGAGGTCATGCCTGA  
TCTCTACTTTACAGAGATCCTGAAGATATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAGGA  
GGAATTTTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGA  
AGGTGTACAGGTGCCCTCTGTGCCTATTACAGCAGTTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCACGGAAGA  
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTCTTG  
ATAGGCTCTTAAGCAACATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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**FIGURE 2698**

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYICKRKSNNGIYIINLKRTWEKLLLAASAIVAIENPADVS  
VISSRNTGQRAVLKFAAATGATPIAGHFTPGTFTNQIQAAFREPWLLVVTDPRADHQPLTEASYVNLPTIALCNT  
DSPMRYVDIAIPCNNKGAHSVGLMWRMLAREVLRMCSTISYDHPWEVMPDLYFYRDPEDIEKEEQAAAEKAVTKE  
EFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQPATEDWSAAPTAAQATEWVGATTDWS

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**FIGURE 2699**

CAGAGGGGCCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTAAAGGGAACTTTCACAATGTCCGGAGCCCT  
TGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTTAGGTGGCACCATCT  
TGACTTCCAGATGGAACAGTACATCTGTAAAAGGAAAAGTAATGGCATCTATATCATAAATCTGAAGAGGACCTG  
GGAGAAGCTTCTGCTGGCTTCACTCCTGGAACCTTACTAACCAGATCCAGGCAGCCTTCCGGGAGCCATGGCTT  
CTTGTGGTTACTGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCT  
CTGTGTAACACAGATTCTCCTATGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTG  
GGTTTGATGTGGTAGATGCTGGCTCGGGAAGTTCTGCGCATGTGTAGCACGATTTCTATGACCACCCGTGGGAG  
GTCATGCCTGATCTCTACTTCTACAGAGATCCTGAAGATATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCA  
GTGACCAAGGAGGAATTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCCTGCTACTCAGCCTGAGGTTGCA  
GACTGGTCTGAAGGTGTACAGGTGCCCTCTGTGC

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**FIGURE 2700**

GGGAAACTTTCACAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAG  
CAGGAACCCACTTAGGTGGCACC AATCTTGACTTCCAGATGGAACAGTACATCTGTAAAAGGAAAAGTAATGGCA  
TCTATATCATAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTAGTGCTATTGTTGCCATTGAAAACC  
CTGCTGATGTCAGTGTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAG  
CCTCTCCAATTGCTGGCCACTTCACTCCTGGAACCTTCACTAACCAGACACGGAGGCATCTTATGTTAACCTACC  
TACCATTGCTCTGTGTAACACAGATTCTCCTATGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGC  
TCCTCAGTGGGTTTGATGTGGTAGATGCTGGCTCGGGAAGTTCTGCGCATGTGTAGCACGATTTCTTATGACCA  
CCCGTGGGAGGTCATGCCTGATCTCTACTTCTACAGAGATCCTGAAGATATTGAAAAAGAAGAGCAGGCTGCTGC  
TGA

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FIGURE 2701

GGCACGAGGGCCAGGAACGCCAGCCGTTACGCGTTCGGTCTCTTGGCTGACTCACCGCCCTCGCCGCCGCAC  
CATGGACGCCCCCAGGCAGGTGGTCAACTTTGGGCCTGGTCCCGCCAAGCTGCCGCACTCAGTGTTGTTAGAGAT  
ACAAAAGGAATTATTAGACTACAAAGGAGTTGGCATTAGTGTTCTTGAAATGAGTCACAGGTCATCAGATTTTGC  
CAAGATTATTAACAATACAGAGAATCTTGTGCGGGAATTGCTAGCTGTTCCAGACAACATAAGGTGATTTTCT  
GCAAGGAGGTGGGTGCGGCCAGTTCACTGCTGTCCCTTAAACCTCATTGGCTTGAAAGCAGGAAGGTGTGCGGA  
CTATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGAGAGAAGCCAAGAAGTTGGGACTATAAATATCGTTCA  
CCCTAAACTTGGGAGTTATACAAAAATTCCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTA  
TTATTGCGCAAATGAGACGGTGCATGGTGTGGAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGGTTG  
TGACATGTCTCAAACCTTCTGTCCAAGCCAGTGGATGTTTCCAAGTTTGGTGTGATTTTTGCTGGTGCCAGAA  
GAATGTTGGCTCTGCTGGGGTCACCGTGGTGATTGTCCGTGATGACCTGCTGGGGTTTGCCTCCGAGAGTGCCC  
CTCGGTCTTGAATACAAGGTGCAGGCTGGAACAGCTCCTTGTAACACGCTCCATGTTTCAGCATCTACGT  
CATGGGCTTGGTTCTGGAGTGGATTAAAAACAATGGAGGTGCCGCGCCATGGAGAAGCTTAGCTCCATCAAATC  
TCAAACAATTTATGAGATTATTGATAATTCTCAAGGATTCTACGTGTCTGTGGGAGGCATCCGGGCCTCTCTGTA  
TAATGCTGTACAAATTGAAGACGTTCAGAAGCTGGCCGCTTATGAAAAATTTTGGAGATGCATCAGCTATG  
AACACATCCTAACAGGATATACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAACTTGGGGATGGCTACAAA  
AAGTTAACACAGTATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTTGAAGAACAACAGCAAAAC  
ATCCACAACCTCTGTAAAGCTGGTGGGACCTAATGTCACCTAATTCTGACTTGAAGTGAAGCATTTTAAGAAAT  
CTTGTGTCTTTTCTAACAAATCCCGCGTATTTTGCCTTTGCTGCTACTTTTCTAGTTAGATTTCAAACTTGCC  
TGTGGACTTAATAATGCAAGTTGCGATTAATTATTTCTGGAGTCATGGGAACACACAGCACAGAGGGTAGGGGG  
CCCTCTAGGTGCTGAATCTACACATCTGTGGGGTCTCTGGGTTACAGCGCTGTGATTCAAGGTCAACATTGAC  
CATTGGAGGAGTGGTTTAAAGGTGCCAGGCGAAGGGCAAACGTAGATCGATCTTTATGCTGTTATTACAGGAGA  
AGTGACATACTTTATATATGTTTATATTAGCAAGGTCTGTTTTAATACCATATACTTTATATTCTATACATTT  
ATATTTCTAATAATACAGTTATCACTGATATATGTAGACACTTTTAGAATTTATTAAATCCTTGACCTTGTGCAT  
TATAGCATTCCATTAGCAAGAGTTGTACCCCTCCCCAGTCTTCGCCCTTCTCTTTTAAAGCTGTTTTATGAAAA  
AGACCTAGAAGTTCTTGATTCATTTTTACCATTCTTTCCATAGGTAGAAGAGAAAGTTGATTGGTTGGTTGTTTT  
TCAATTATGCCATTAAACTAAACATTTCTGTAAATTACCTATCCTTTGTTCTCTACTGTTTTCTTTGTAATGT  
ATGACTACGAGAGTGATCTTTGCTGAAAAGTCTTTCCCTATGTTTATCTATTGTCAGTATTTTATGTTGAAT  
ATGTAAAGAACATTAAAGTCCTAAACATCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2702**

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSHRSSDFAKIINNNTENLVRELLAVPDNYKVIFL  
QGGGCGQFSAPVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKFGTINIVHPKLGSYTKIPDPSTWNINPDASYVY  
YCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGAQKNVGSAGVTVVIVRDDLLGFALRECP  
SVLEYKVQAGNSSLYNTPPCFSIYVMGLVLEWIKNNGGAAAMEKLSSIKSQTIYEIIDNSQGFYVSVGGIRASLY  
NAVTIEDVQKLAAFMKKFLEMHQL

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FIGURE 2703

GGCAGGAGGGCCAGGAACGCCAGCCGTTACGCGTTCGGTCCTCCTTGGCTGACTCACCGCCCTCGCCGCCGCAC  
CATGGACGCCCCCAGGCAGGTGGTCAACTTTGGGCCCTGGTCCCGCCAAGCTGCCGCACTCAGTGTTGTTAGAGAT  
ACAAAAGGAATTATTAGACTACAAAGGAGTTGGCATTAGTGTTCTTGAAATGAGTCACAGGTCATCAGATTTTGC  
CAAGATTATTAACAATACAGAGAATCTTGTGCGGGAATTGCTAGCTGTCCAGACAACATAAGGTGATTTTCT  
GCAAGGAGGTGGGTGCGGCCAGTTCAAGTGTGTCCCTTAAACCTCATTGGCTTGAAAGCAGGAAGGTGTGCGGA  
CTATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGCGAGAAGAAGCCAAGAAGTTTGGGACTATAAATATCGTTCA  
CCCTAAACTTGGGAGTTATACAAAATTCCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTA  
TTATTGCGCAAATGAGACGGTGCATGGTGTGGAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGGTTTG  
TGACATGTCCTCAAACCTCCTGTCCAAGCCAGTGGATGTTTCCAAGTTTGGTGTGATTTTTGCTGGTGCCAGAA  
GAATGTTGGCTCTGTGGGGTCACCGTGGTGATTGTCCGTGATGACCTGTGGGGTTTGCCTCCGAGAGTGCCC  
CTCGGTCTCGAATACAAGGTGCAGGCTGGAAACAGCTCCTTGTAACACGCTCCATGTTTCAGCATCTACGT  
CATGGGCTTGGTTCTGGAGTGGATTAAAAACAATGGAGGTGCCGCGGCCATGGAGAAGCTTAGCTCCATCAAATC  
TCAAACAATTTATGAGATTATTGATAATTCTCAAGGATTCTACGTTTGTCCAGTGGAGCCCCAAAATAGAAGCAA  
GATGAATATTCCATTCCGATTGGCAATGCCAAAGGAGATGATGCTTTAGAAAAAGATTTCTTGATAAAGCTCT  
TGAATCAATATGTTGTCCTTGAAGGGCATAGGTCTGTGGGAGGCATCCGGGCCTCTCTGTATAATGCTGTAC  
AATTGAAGACGTTTCAAGCTGGCCGCCTTCATGAAAAATTTTGGAGATGCATCAGCTATGAACACATCCTAA  
CCAGGATATACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAACTTGGGGATGGCTACAAAAAGTTAACACAG  
TATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTTGAAAGAACAACAGCAAAACATCCACAACCTCT  
GTAAAGCTGGTGGGACCTAATGTACCTTAATTCTGACTTGAAGTGAAGCATTTTAAGAAATCTTGTGCTTTT  
CTAACAAATTCGCGTATTTTGCTTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACCTTGCTGGGACTTAAT  
AATGCAAGTTGCGATTAATTATTTCTGGAGTCATGGGAACACACAGCACAGAGGGTAGGGGGGCCCTCTAGGTGC  
TGAATCTACACATCTGTGGGGTCTCCTGGGTTGAGCGGCTGTTGATTCAAGGTCAACATTGACCTTGGAGGAGT  
GGTTTAAGAGTGCCAGGCGAAGGGCAAACCTGTAGATCGATCTTATGCTGTTATTACAGGAGAAGTGACATACTT  
TATATATGTTTATATTAGCAAGGTCTGTTTTTAAATACCATATACTTTATATTTCTATACATTTATATTTCTAATA  
ATACAGTTATCACTGATATATGTAGACACTTTTGAATTTATTAATCCTTGACCTTGTGCATTATAGCATTCCA  
TTAGCAAGAGTGTACCCCTCCCGAGTCTTCGCTTCTCTTTTAAAGCTGTTTTATGAAAAAGACCTAGAAGT  
TCTTGATTCATTTTTACCATTCTTCCATAGGTAGAAGAGAAAGTTGATTGGTTGGTTGTTTTCAATTATGCCA  
TTAAACTAAACATTTCTGTTAAATTACCCTATCCTTTGTTCTCTACTGTTTTCTTTGTAATGTATGACTACGAGA  
GTGATACTTTGCTGAAAAGTCTTTCCCTATTGTTTATCTATTGTGAGTATTTTATGTTGAATATGTAAAGAACA  
TTAAAGTCCTAAACATCTAAAAA

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**FIGURE 2704**

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSHRSSDFAKIINNNTENLVRELLAVPDNYKVIFL  
QGGGCGQFSAPVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKFGTINIVHPKLGSYTKIPDPSTWNLNPDASYVY  
YCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGAQKNVGSAGVTVVIVRDDLLGFALRECP  
SVLEYKVQAGNSSLYNTPPCFSIYVMGLVLEWIKNNGGAAAMEKLSSIKSQTIIYEIIDNSQGFYVCPVEPQNRSK  
MNIPFRIGNAKGDDALEKRFLDKALELNMLSLKGHRVGGIRASLYNAVITIEDVQKLAAFMKKFLEMHQL



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**FIGURE 2705**

ATGGTGGAAAAGGAGCAAAGACATAGTCGGAATGAATGGGAAGGTTGGTATAATGGACCCAAATCTCTTGTTC  
AAACAAGTTAAGGAAAATTGTTTTAAAAATCCTAAACACTCAGTCTGTGAATATGATCCTGGGTCCTCTCAGAAC  
TGCCAACATTCTAACACCAGCTGGCACCAGAGACCCTGCTCTGAGGTCAGGGATGATGTGAGCAAGTGGTCTAAT  
AATTCTCAGAACTCTTTTTCTCATTCTTCTTCCCTCTCTTCTCTTCTGCCTTACCAAGAACAGAGAAATGGTC  
TTTCTTAAAGAAGAAGAAAAGAGGACTCCAACCGTAAGAATTGAGTACAAGGAGTTGCTCAGTGATGTGAAGCTG  
AAGAGGGCATCTGAGGAGATGAGCTGTAAAACATATTACAAGAGGGACGTGTGAAGGGAGTGACCATTCCGAAG  
AACCAGACAGCTGCCCACAGGAGAAGGATGCCATCCCAAAGATGAATCAGAGTTTCCATGAGCAAAAGAGCCTT  
GTGAGTCGTCGGCAAAGCCTGAGTCCTGTCTTTTCGCTCTCCTCCCCGACAGTATGAGCTTCACCACTCGCTCC  
ACCTTCTCCACCACTACCGGTCCCTGGGCTCTGTCCAGGCGCCAGCTACGGCGCCCGGCTATAGACAATGCC  
CATCTTGCTGCTGATGACTGTAGAGTCAAGTATGAGACAGAAGTGGCCATGCACCAGTCTGTGGAGAAAGACATC  
CATGGGCTCCACAAGGTCATCGATGACACCAATGTCACTTGGCTGCAGGTGGAGACACAGATCGAGGCTCTCAAG  
GAGGAGCTCTTTCATGAAGAAGAACCACGAATAGGAAATAAAAGGCCACAAGCTCAGATTGCCAGCTCTGGGTT  
GACAGTGGAGTGGTCCCCATGCAGCCCGCCAAGGTCGGAGCTGCTGAGATGATGCTCACTGAGCCGAGATGCACA  
GTCCAGTCTTCGGAGGTCGACCTGGAATCGATGAGAAATCTGAAGGCTAGCTTGGGGAACAGCCTGAGGGAGGTG  
GAGGCTGCTACACCGTGAAGATGGAGCAGCTCGACGGAATCGTGCCCACTTGGAGTCAGAGCTGGCACAGACC  
TGGGCAGAGGAACAGTGCCAGGCCCAGCAGTACGAGGCCCTGATGAACATCAAGGTCAAGTTGGAGGCTGAGATC  
ACCACCTACTGCTGCCTGCTGAAAGATGGCGAGGACGTCAATCTTGGTGATACCCTGGACAGCAGCAACTCCATG  
CAAACCATCCAAAAGACCACCACCTGCCAGACAGTGGATGGCAAAGTGGTGTCTGAGACCAAAGATACCAAAGTT  
CTGAGGCATTACACCAGCAGAAATTACAAGTGCATGGCCAGGAAAGGCGCAATGGCAAAGAAACAGGAAGTGAT  
TCTTACAGTGGGGAACCCCTGGAAGCTGAGGATGCCAAAGCCGTAAGACTTAACATCTCCAAGTCATCATTCGAG  
GTGTTAATGCTGGAAGCTACAGAGAAGATGACAGGTTCTCATTAAATGTGA

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**FIGURE 2706**

MVEKEQRHSRNEWEGWYNGPKSLVSKQVKENCFKNPKHSVCEYDPGSSQNCQHSNTSWHQRPCSEVRDDVSKWSN  
NSSEFFSFFFPLFLFCLTKNREMVFLKEEEKRTPTVRIEYKELLSDVKLKRASEEMSCKTYSQEGRVKGV TIPK  
NPDSCPQEKDAIPKMNQSFHEQKSLVSRQSLSPVLSLSSPDSMSFTTRSTFSTNYRSLGSGVQAPSYGARP IDNA  
HLAADD CRVKYETELAMHQSV EKDIHGLHKVIDDTNVTWLQVETQIEALKEELFH EEEPRIGNKRPTSSDCQLWV  
DSGVVPMQPAKVGAEMMLTEPRCTVQSSEVDLES MRNLKASLGNSLREVEACYTVKMEQLDGIVPHLESELAQT  
WAEQCQAQQYEALMNIKVLEAEITTYCCLLDGEDVNLGDTLDSSNSMQTIQKTTTCQTVDGKVVSETKDTKV  
LRHYTSRNYNCMAQERRNGKETGSDSYSGEPLAEDAKAVRLNISKSSFEVLMLEATEKMTGSSLM

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**FIGURE 2707**

ACAGAGCCCCGGCCGCCGCCAGAGCGATGTTCCCGCAGAGCCGGCACCCGACGCCGCACCAGGCTGCAGGCCAGC  
CCTTCAAGTTCCTATCCCCGGAGTCCCTGGACCGGATTAAAGAGGAATTCAGTTCCCTGCAGGCGCAGTATCACA  
GCCTTAAATTGGAATGTGAGAACTGGCAAGTGAAAAGACAGAAATGCAGAGGCACTATGTGATGTATTATGAAA  
TGTCATATGGATTAAACATTGAAATGCACAAACAGACTGAAATCGCCAAGAGATTGAATACGATTTGTGCACAAG  
TCATCCCATTTCTGTCTCAGGAACATCAACAACAGGTGGCCCAGGCTGTTGAACGTGCCAAACAGGTGACCATGG  
CAGAATTGAATGCCATCATCGGGCAGCAGCAGTTGCAAGCTCAGCATCTTCTCATGGCCACGGACCCCCAGTTC  
CCCTTACGCCTCACCCCTTCGGGACTTCAGCCTCCTGGAATCCCCGCCCTCGGGGGCAGTGCCGGCCTTCTTGCGC  
TGTCTAGTGCTCTGAGTGGGCAGTCTCACTTGGCAATAAAGATGACAAGAAGCACCACGATGCAGAGCACCACA  
GAGGTGAGAGGCCGGGCAAGAGTAATCCCTCCTGGTCCAGACAGTCTAAGAGGCACAGATAAACGCAGAAATG  
GACCTGAATTTTCCAATGACATCAAGAAAAGGAAGGTGGATGATAAGGACTCCAGCCACTATGACAGTGATGGTG  
ACAAAAGCGATGACAACTTAGTTGTGGATGTGTCTAATGAGGACCCTTCTTCTCCGCGAGCAAGCCCTGCCCCACT  
CGCCCCGGGAAAATGGAATCGACAAAAATCGCCTGCTAAAGAAGGATGCTTCTAGCAGTCCAGCTTCCACGGCCT  
CCTCGGCAAGTTCCACTTCTTTGAAATCCAAAGAAATGAGCTTGCAATGAAAAGCCAGCACGCCTGTTCTGAAAT  
CCAGCACACCAACGCCTCGGAGCGACATGCCAACGCCGGGCACCAGCGCCACTCCAGGCCTCCGTCCAGGTCTCG  
GCAAGCCTCCAGCCATAGACCCCCCTCGTTAACCAAGCGGCAGCTGGCTTGAGGACACCCCTGGCAGTGCCCCGGCC  
CATATCCTGCTCCTTTTGGGATGGTCCCCACGCTGGCATGAACGGCGAGCTGACCAGCCCAGGCGCTGCCTACG  
CCAGTTTACACAACATGTCGCCCCAGATGAGCGCCGAGCCGCCGCGGCCGCGTGGTGGCCTACGGGCGCTCCC  
CCATGGTGGGGTTTGATCCTCCCCCTCACATGAGAGTACCTACCATTCTCCAAACCTGGCAGGAATCCCTGGGG  
GGAAACCTGCATACTCCTTCCACGTTACTGCAGACGGTCAGATGCAGCCTGTCCCTTTTCCCCCGACGCCCTCA  
TCGGACCCGGAATCCCCCGCATGCTCGCCAGATCAACACCCTCAACCACGGGGAGGTGGTGTGCGCTGTGACCA  
TCAGCAACCCACAGAGACAGTGTACACAGGCGGGAAGGGCTGCGTCAAGGTCTGGGACATCAGCCACCCTGGCA  
ATAAGAGCCCTGTCTCCAGCTCGACTGTCTGAACAGAGACAATTATATCCGTTCTGTAAATTGCTACCCGATG  
GCTGCACTCTCATAGTGGGAGGGGAAGCCAGTACTTTGTCCATTTGGGACCTGGCGGCTCCAACCCCGCGCATCA  
AGGCGGAGCTGACGTCTCGCCCCCGCCTGTACGCCCTGGCCATCAGCCCCGATTCCAAGGTCTGCTTCTCAT  
GCTGCAGCGACGGCAACATCGCTGTGTGGGATCTGCACAACCAGACACTAGTGAGGCAATTCCAGGGCCACACAG  
ACGGAGCCAGCTGTATTGACATTTCTAATGATGGCACCAAGCTCTGGACGGGTGGTTTGGACAACACAGTCAGGT  
CCTGGGACCTGCGCGAGGGGCGGCAGCTGCAGCAGCAGACTTCACCTCCCAGATCTTCTCCCTGGGGTACTGCC  
CCACCGGGGAGTGGCTGGCAGTGGGCATGGAGAGCAGCAATGTGGAGGTGCTGCACGTGAACAAGCCTGACAAGT  
ACCAGCTGCACCTGCATGAGAGCTGCGTGCTGTCCCTGAAATTTGCTTACTGTGGTAAATGGTTTGTGAGTACTG  
GAAAAGATAACCTCCTCAATGCTTGGCGGACCCCTATGGAGCCAGCATATTCCAGTCCAAAGAGTCCCTCGTCAG  
TGCTTAGCTGTGACATCTCTGTGGATGATAAGTACATAGTCACTGGCTCGGGGGACAAGAAGGCTACAGTCTATG  
AAGTCATCTACTGAAAACATTATGTGGT

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FIGURE 2708

CGGCAGTCTCGCGCGGCTACTGCAGCACTGGGGTGTCTAGTTGTTGGTCCGACCCAGAACGCTTCAGTTCTGCTCT  
GCAAGGATATATAATAACTGATTGGTGTGCCCCGTTTATAAAAAGAATATGGAAACTGAACAGCCAGAAGAAACCT  
TCCCTAACACTGAAACCAATGGTGAATTGGTAAACGCCCTGCAGAAGATATGGAAGAGGAACAAGCATTAAAAA  
GATCTAGAAACACTGATGAGATGGTTGAATTACGCATTCTGCTTCAGAGCAAGAATGCTGGGGCAGTGATTGGAA  
AAGGAGGCAAGAATATTAAGGCTCTCCGTACAGACTACAATGCCAGTGTTTCAGTCCCAGACAGCAGTGGCCCCG  
AGCGCATATTGAGTATCAGTGCTGATATTGAAACAATTGGAGAAATTCTGAAGAAAATCATCCCTACCTTGGAAG  
AGGGCCTGCAGTTGCCATCACCCACTGCAACCAGCCAGTCCCCGCTCGAATCTGATGCTGTGGAATGCTTAAATT  
ACCAACACTATAAAGGAAGTGACTTTGACTGCGAGTTGAGGCTGTTGATTTCATCAGAGTCTAGCAGGAGGAATTA  
TTGGGGTCAAAGGTGCTAAAATCAAAGAACTTCGAGAGAACTCAAACCACCATCAAGCTTTTCCAGGAATGCT  
GTCCTCATTCCACTGACAGAGTTGTTCTTATTGGAGGAAAACCCGATAGGGTTGTAGAGTGCTATAAGATCATCC  
TTGATCTTATATCTGAGTCTCCCATCAAAGGACGTGCACAGCCTTATGATCCCAATTTTTACGATGAAACCTATG  
ATTATGGTGGTTTTACAATGATGTTTGATACCGTTCGCGGACGCCCCAGTGGGATTTCCCATGCGGGGAAGAGGTG  
GTTTTGACAGAATGCCTCCTGGTTCGGGGTGGGCGTCCCATGCCTCCATCTAGAAGAGATTATGATGATATGAGCC  
CTCGTCGAGGACCACCTCCCCCTCCTCCCGACGAGGCGGCGGGGTGGTAGCAGAGCTCGGAATCTTCTCTCTC  
CTCCACCACCACCACCTAGAGGGGGAGACCTCATGGCCTATGACAGAAGAGGGAGACCTGGAGACCGTTACGACG  
GCATGGTTGGTTTCAGTGCTGATGAAACTTGGGACTCTGCAATAGATACATGGAGCCCATCAGAATGGCAGATGG  
CTTATGAACCACAGGGTGGCTCCGGATATGATTATTCCTATGCAGGGGGTTCGTGGCTCATATGGTGATCTTGGTG  
GACCTATTATTACTACACAAGTAAGTATTCCTCAAAGATTGGCTGGATCTATTATTGGCAAAGGTGGTCAGCGGA  
TTAAACAAATCCGTCATGAGTCGGGAGCTTCGATCAAAATTGATGAGCCTTTAGAAGGATCCGAAGATCGGATCA  
TTACCATTACAGGAACACAGGACCAGATACAGAATGCACAGTATTTGCTGCAGAACAGTGTGAAGCAGTATGCAG  
ATGTTGAAGGATTCTAATGCAAGATATTTTTCTTTTTTATAGTGTGAAGCAGTATTCTGGAAAGTTTTTCTAAG  
ACTAGTGAAGAACTGAAGGAGTCCTGCATCTTTTTTTTTTATCTGCTTCTGTTTTAAAAAGCCAACATTCCTCTG  
CTTCATAGGTGTTCTGCATTTGAGGTGTAGTGAAATCTTTGCTGTTTACCAGATGTAATGTTTTAGTTTCTTACA  
AACAGGGTTGGGGGGGGGAAGGGCGTGCAAAACTAACATTGAAATTTTGAACAGCAGCAGAGTGAGTGGATTT  
TATTTTTCTGTTATTGTTGGTGGTTTAAAAAATCCCCCATGTAATTATTGTGAACACCTTGCTTTGTGGTCACT  
GTAACATTTGGGGGGTGGGACAGGGAGGAAAAGTAACAATAGTCCACATGTCCCTGGCATCTGTTTCAGAGCAGTG  
TGCAGAATGTAATGCTCTTTTGTAAAGAACGTTTTATGATTTTTAAAAATAAATTTAGTGAACCTATTTTTGGTGG  
TCATTTTTTTTTTAAAGACAGTCATTTTAAATGGTGGCTGAATTTCCCAACCCACCCCAAACTAAACACTAAGT  
TTAATTTTCAGCTCCTCTGTTGGACATATAAGTGCATCTCTGTTGGACATAGGCAAAATAACTTGGCAAACCTTA  
GTTCTGGTGATTTCTTGATGGTTTGGAAAGTCTATTGCTGGGAAGAAATTCATCATACATATTTCATGCTTATAAT  
AAGCTGGGGATTTTTGTTGTTTTTGCAATGCTTGCCCCCTACTTTCAACAATTTCTATGTTAGTTGTGAAG  
AACTAAGGTGGGGAGCAGTACTACAAGTTGAGTAATGGTATGAGTATATACCAGAATCTGATTGGCAGCAAGTT  
TATTAATCAGAATAACACTTGGTTATGGAAGTGAATAATGCTGAAAAAATTGATTATTTTTATTAGATAATTTCT  
CACCTATAGACTTAACTGTCAATTTGCTCTAGTGTCTTATTAGTTAACTTTGTAAATATATATATACTTGT  
TTTCCATTGTATGCAAAATTGAAAGAAAAAGATGTACCATTTCTCTGTTGTATGTTGGATTATGTAGGAATGTTG  
TGTACAATTCAAAAAAGATGAAAAAGTTCTGTGGATGTTTGTGTAGTATCTTGGCATTGTATTGA  
TAGTTAAATTCACCTTCAAATAAAATAAACACCCATGATGCTAG

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**FIGURE 2709**

METEQPEETFPNTETNGEFGKRP AEDMEEEQAFKRSRNTDEMVELRILLQSKNAGAVIGKGGKNIKALRTDYNAS  
VSVPDSSGPERILSISADIETIGEILKKI IPTLEEGLQLP SPTATSQLP LESDAVECLNYQHYKGSDFDCELRL  
IHQSLAGGIIGVKGAKIKELRENTQTTIKLFQECCPHSTDRVVLIGGKPD RVVEC IKIILD LISESPIKGRAQPY  
DPNFYDETYDYGGFTMMFDDRGRPVGFFMRGRGGFDRMPPGRGGRPMPPSR RDYDDMSPRRGPPPPPPGRGGRG  
GSRARNLPLPPPPPPRGDDL MAYDRRGRPGDRYDGMVGFSADETWD SAIDTWSPSEWQMAYEPQGGSGYDYSYAG  
GRGSYDGLGGPIITTQVTIPKDLAGSIIGKGGQRIKQIRHESGASIKIDEPLEGSEDRIITITGTQDQIQNAQYL  
LQNSVKQYADVEGF

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**FIGURE 2710**

AAAAAGGAAGTGGGAGCGCGCCGCGGGTTCCTGTCTTACAGTTGCGCTGCCAGGGACCGATGTTGCGCGAG  
GAAAATGCGGGACGCCCAGGTCGGTGCTCGGCCCAGACTTATGCCCGTGTTTTACAGCCCACACTCGTGCCCGA  
AGCCCCTTACCCCGCCCCGGGCTGTGGTCTGTGGGCTGTGGGACGAGCTGCGGCGCGGGCCATTTCGAGCAGTG  
GAGGTTTCAAGTAATCCACTAACAACCAGTTCCAAATTCGTGTCATCAAATCCTGTGCTGCTGTTCTCGTGTTAA  
TAGATGCATATTATTTCTTTTATTTAAAAGAAATGAATGTGACTAGTATTGCATTAAAGAGCTGAAACTTGGCTTT  
TAGCTGCATGGCATGTTAAAGTACCTCCGATGTGGCTGGAAGCTTGTATTAACTGGATTCAAGAAGAAAAATAATA  
ATGTTAACTTGAGTCAGGCCCAAATGAATAAAACAAGTGTTTGAGCAGTGGCTCCTTACTGATCTGAGGGATTG  
AGCATCCTCTTTTACCCGATGGCATTTTAGAAATTCCAAAGGAGAATTAAATGGATTTTATGCTCTGCAGATTA  
ATTCTTGGTTGATGTAAGTCAGCCTGCATACCTCCAGATACAGAAGTTGAGAGGAAAGAATACAACAAATGATC  
TAGTTACAGCTGAAGCACAAGTAACCCCAAAACCTTGGGAAGCAAAGCCTTCACGAATGTTGATGCTGCAGCTAA  
CTGATGGAATCGTACAAATACAGGAATGGAATATCAGCCTATTCCAATTCTTCATAGTGATCTTCTCCAGGTA  
CAAAAATTTTGATTTATGGAATATATCTTTCCGCTCTTGGTGTTCTCTTATTGAAACCAGAAAACGTGAAAGTGT  
TAGGAGGTGAAGTAGATGCTCTTTTAGAAGAATATGCCCAAGAAAAAGTACTTGCAAGATTAATAGGGGAACCTG  
ATCTTGATGTTTTCAGTCATACCAAACAATTCCTAACGAAAACATTCCAGAGTTACAGATGTTCTAGATCCTGCAT  
TAGGTCCTTCTGATGAAGAATCTTGGCAAGTCTTGTATGAAATGATGAGCTTACAGCAAATAATGACACTTCCT  
CAGAACGATGTTTCACCACAGGTAGTTTCTCAAATACCATTCCCAAGACAGTCAAGTTTTGAGCCAGAATTTG  
TTATTTCTCCAAGACCAAAAGAGGAACCATCAAACCTATCTATACATGTAATGGATGGAGAATTAGATGACTTTT  
CACTGGAGGAGGCTTGTCTTTTAGAAGAACTGTCCAGAAAGAACAGATGGAAACTAAGGAATTGCAACCATTGA  
CTTTTAACAGAAATGCCGATCGAAGTATAGAGAGATTTTACATAATCCTAATACTACGAATAACTTTTCTTTGA  
CTTGCAAAAATGGAAACAATAATTGGAGTGAAAAAATGTATCTGAACAAATGACTAATGAAGACAATCATTG  
GTTGTCCATCTGTTAGAGACCAAAACAGGAGTATTTTTTCAGTTTCTGTAATGTACCCCTAGCCCATGATTTTA  
CAAAATAAGAAAAAGAACTTAGAGACAGATAATAAAATAAAACAAACCAGCAGTTTCAAGATAGCCATTCTTAAATA  
ATAAAATATTAATAGAGAGGTGGTCAACTATGTACAGAAAAGGAATTCACAAATTTCTAATGAAATGATTGTA  
ATTACAGAGTTGTTCTTTAAGATCATCAGAGAATAGCATTAACTTTCTATTGCCATGGATTGTATTCTCCAC  
CCTTTGTCTATTTGTCTGTTCTAATGGCCAGCAAACCAAGGAAGTTACAACAGTGAAGTGAAAGCATTATTTG  
TAACCTTAAGTGGAAATCTCTCAAGTTCTGGTGGTATTTGGAGTATAACTGCAAAGGTGCTGATGGTACTGCA  
ATCTAGATGTAGACTTTGTGGATGAAATACTTACTAGCTTGATAGGGTTCTCAGTACCAGAAATGAAACAGTCAA  
AAAAGGATCCTCTCAATACCAAAAGTTCTGGAAGGGTGCAGAAATGTCAAAGAGATCTAATAGATTTGTGCT  
GTCTAATGACTATTTCAATTAATCCTTCTGTCTAAAGCAATGGTACTGGCATTACAAGATGTTAATATGGAAC  
ACCTTGAGAACTAAAGAAGCGGTTAAATAAATAATTAAGTAAATAGTATTAGGAACAATTAACAAACAAG  
GAAATATTTAGAATTTGTTCAATTTTACTTATGATACTTTGTGTAAAAAGGAAAAATGAAATTTATAGCTTA  
TTTCAGTTTAATTTTAAAGTGTTTAAATCATGTTTGTATATGTGGAGCTTTTGAAAATAAGTTAATCTTTTTTTT  
TTTTTTTTTAATGTACAGGTATTGCTCTGTGCCCAGGCTAGAGTGCAGTGGCATGATCATAGGTTATTGCATCA  
ACCTCTTGAGCTCAAGCGATCCTCCTGCCTTAGCCTCTTGAGTTGCTGGGACTATAGGCATGTACCACCATGCC  
AGCTAATTTATAATTACTATTATTGTTTTGTAGGGACAGAGTTTTGCTATGTTGCCAGATTGGTCTCAAACCTC  
TGGCCTCTCACTCCTGCCGTATGGCCTCAAAGTTTACTTTTTTTAAAGTAACTGTTAGATGGAGGAATATGG  
TGACCCACTATTGTTGAGAAATTTGTTTTCCACTTGTACGTCACATAAGATGATTGCTAAAAATATTGACTGGT  
GTTCCGGTGGTGAGTCATATTTTGAAAGTTAATAATTATAAATAGGTAATTCCTTCTAATATGTTGGTACTGTC  
TATGGCCATACCACCTGAACATGCCGTGAGCTTGTACATAATGTTGAGTACCCAAAAGATTGTTTATATTGTT  
AATCTTAGGGAAAAAAATTAATCCAGTAGATCAGAACATCAGGCTTTCAGATACAAATTGATTTACTGGTTT  
TTATTTTGCTGATTATAATATTGTTATATTAAAGTAATCTAGTTAACTAGATGCTATTTTCATAGATTATATTG  
AATGATTTAAACCTTTATTTCAAGGATAGTTTATTTTAAATGGCATATTGAAAACATCATTATTAAGATCCAGT  
AGGTAGGACATTTATTGGATTAAATGAAGCATTTATCTATGCTTTTAGGTGTCATTGTTCCCTTTCTGAATTAG  
CTGTACATATAAGCCTTCTTTGGTTTTAAGTACTGATTTTTTTTTTAAAAAAGAGGGACTGTTTACCATTCTT  
CCACTGTGCTGTTATAAAGTTGTATTTGAAAGGTAATGTTGTTTTTATTAACTTTTGTCTTAAATAAATTTAA  
GTGCTTTGAATTTTAAACATTAAACAAATCCTTAAATAAC

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**FIGURE 2711**

TGCTCCGGAGGGCACGGGCTCCGTAGTCACCAACTGCAAGGCCCCCTCCCCCTGCGGGCGCTCCCCCTGGCACAAAT  
TCGCGTTCGAGAGTGACCTGCACTCGCTGCTTCAACTGGATGCACCCATCCCCAATGCACCCCCTGCTCGCTGGC  
AGCGCAAAGCCAAGAAAGCCACAGGCCCGGCCCCCTCACCATGCGGGCCGCCAACCGATCCCACAGCGCCAGCA  
GGACTCCGGGCGCAACTCCTGGCAAATCCAGTTCCAAGGTCAGACCACTCCTAGCAAACCTGGCGGTGACCGCT  
ATATCCCCCATCGCAGTGCTGCCCAGATGGAGGTTGCCAGCTTCCTCCTGAGCAAGGAGAACCAGCCTGAAAACA  
GCCAGACGCCCCACCAAGAAGGAACATCAGAAAGCCTGGACTTTGAACCTGAACGGTTTTTGATGTAGAGGAAGCCA  
AGATCCTTCGGCTCAGTGGAAGAACCAAAATGCGCCAGAGGGTTACCAGAACAGACTGAAAGTACTCTACAGCC  
AAAAGGCCACTCCTGGCTCCAGCCGGAAGACCTACCATTACATTCCCTTCCCTGCCAGACCATAACCTGGATGCC  
CTGAAATCCGAAATGACTACTACCTGAATCTTGTGGACTGGAGCTCTGGGAATGTATTGGCCGTGGCGCTGGACA  
ACAGTGTGTACCTGTGGAGCGCAAGCTCTGGTGACATCCTGCAGCTTTTGCAAATGGAGCAGACTGGGAAATATG  
TATCCTCTCGGGCTGGATCAAAGAGGGCAACTACTTGGCTGTGGGCATCAGCAGTGCTGAGGTGCAGCTTTGGG  
ATGTGCAGCAGCAGAAACGGCTTCGAAATATGACCATTCACTCTGCCCCAGTGGGCTCCCTAAGCTGGAACAGCT  
ATATCCTATCCAGTGGTTCACATTCTGGCCACATCCACCACCATGATGTTTCGGGTAGCAGAACACCACGTGGCCA  
CACTGAGTGGCCACAGCCAGGAAGTGTGTGGGCTGCGCTGGGTCCCAGATGGACGACATTTGGCCAGTGGTGGCA  
ATGATAACTTGGTCAAAGTGTGGCCTAGTGCTCTTGGAGAGGGTGGCTGGGTTCTCTGCAGACATTACCCCTTC  
AAGGGGCTGTCAAGGCCGTAGCATGGTGTCCCTGGAAGTCCAATGTCCCGGCAACAGGAGGGGGCACCAGTGATC  
GACACATTTGCATCTGGAACGTGTGCTCTGGGGCCTGTCTGAGTGCCGTGGATGCCCTTTCCCAGGTGTGCTCCA  
CCCTCTGGTCTCCCCACTACAAGGAGCTCATCTCAGGCCATGGCTTTGCACAGAACCAGCTGGTTATTTGGAAGT  
ACCCAACCATGGCCAAGGTGGCTGAACTCAAAGGTACACATCCCGGGTCTGACTCTGACCATGAGCCCAGATG  
GGGCCACAGTGGCATCTGCAGCAGCAGATGAGACCCGAGGCTATGGCACTGTTTTGAGTTGGACCTGTGTGGC  
GGCGGGAGCGGGAGAAGGCCAGTGCCAGCCAAAAGCAGCTTCATCCACCAAGGCATCCGCTGAAGACCAACCCCTC  
GCCTCAGTTGTTTTTTATTTTCTAATAAAGTCATGTCTCCCTTCA

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**FIGURE 2712**

CTTTCCAGCCCCAGCCCGGCCCTTGCAGCTGCAGAGATGTTGATGCCTAAGAAGAACCGGATTGCCATTTATGA  
ACTCCTTTTAAAGGAGGGAGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAA  
GAATGTGCCCAACCTTCATGTCATGAAGGCCATGCAGTTTCTCAAGTCCCGAGGCTATGTGAAGGAACAGTTTGC  
CTGGAGACATTTCTACTGGTATCTTACCAATGAGGGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCAGA  
GATTGTGCCTGCCACCTATGCCGTAGCCGTCCAGAGACTGGCAGGCCTCGGCCTAAAGGTCTGGAGATTGAGCG  
ACCTACGAGACTCGCAAGAGGGGAAGCTGACAGAGATACCCACAGATGAGTGTGTGCCACCTGGTGCCGGCAAG  
AAAGCTGAGGCTGGGGCTGGGTCAGCAACCGAATTCCAGTTTAGAGGCGGATTTGGTCATGGACGTGGTCAGCCA  
CCTCAGTAAAATTGGAGAGGATTCTTTTGATTGAATAAACTTACAGCCAAAATCCTTAAAA



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**FIGURE 2713**

MLMPKKNRIAIYELLFKEGVMVAKKDVHMPKHPELADKNVNLHVMKAMQFLKSRGYVKEQFAWRHFWYLTNEG  
IQYLRDYLHLPPEIVPATLCRSRPETGRPRPKGLEIERPTRLARGEADRDTHR

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**FIGURE 2714**

AGTCTCCGGCGAGTTGTTGCCTGGGCTGGACGTGGTTTTGTCTGCTGCGCCCGCTCTTCGCGCTCTCGTTTCATT  
TTCTGCAGCGCGCCACGAGGATGGCCCAAGCAGATCTACTACTCGGACAAGTACTTCGACGAACACTACGAGT  
ACCGGCATGTTATGTTACCCAGAGAACTTTCCAAACAAGTACCTAAAACCTCATCTGATGTCTGAAGAGGAGTGGA  
GGAGACTTGGTGTCCAACAGAGTCTAGGCTGGGTTCATTACATGATTTCATGAGCCAGAACCACATATTCTTCTCT  
TTAGACGACCTCTTCCAAAAGATCAACAAAAATGAAGTTTATCTGGGGATCGTCAAATCTTTTCAAATTTAATG  
TATATGTGTATATAAGGTAGTATTTCAGTGAATACTTGAGAAATGTACAAATCTTTCATCCATACCTGTGCATGAG  
CTGTATTCTTCACAGCAACAGAGCTCAGTTAAATGCAACTGCAAGTAGGTTACTGTAAGATGTTTAAGATAAAAG  
TTCTTCCAGTCAGTTTTTCTCTTAAGTGCCTGTTGAGTTTACTGAAACAGTTTACTTTTTGTTCAATAAAGTTTG  
TATGTTGCATTTAAAAAAAAAAAAAAAAA

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**FIGURE 2715**

MAHKQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLGVQQSLGWVHYMIHEPEPHILLFRRPLPK  
DQOK

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**FIGURE 2716A**

CGGGCAGCGTGGACCCCGGATGAGTTGCTTTTAGGCTTGCTGGCCCCGCGGGCTGTCCAGGCACGCGAGGCCCTT  
CAACAAAATGCTTCAACAAGTTCCAGAAAACATAAATTTTCTGCTGAAGAAGAGAAAATCTTGGAGTTTGGAC  
TGAATTTAATTGTTTTTTCAGGAATGCTTAAAGCAATCAAAACATAAACCAAAATTTACCTTCTATGATGGTCTCC  
TTTTGCAACTGGACTGCCCTACTATGGACATATACTTGC GGGTACAATTAAAGATATAGTTACAAGATATGCTCA  
CCAGAGTGGGTTTCATGTTGACAGAAGATTGGATGGGATTGCCATGGCTTACCTGTGGAATATGAAATTGATAA  
GACACTGGGAATCAGAGGACCAGAGGATGTGGCCAAAATGGGGATTACAGAGTATAACAATCAGTGCCGAGCAAT  
TGTGATGAGATATTCTGCTGAGTGGAAAGTCTACTGTTAGCAGACTTGGCCGATGGATTGACTTTGACAATGACTA  
TAAACTCTGTATCCACAATTCATGGAATCAGTCTGGTGGGTCTTCAAACAACCTCTATGATAAAGGCCCTTGTTTA  
TAGAGGTGTGAAAGTCATGCCCTTCTCTACGGCATGTAACACTCCACTTTCCAACCTTCGAGTCACACCAGAATTA  
TAAGGATGTTCAAGATCCTTCAGTATTTGTAACCTTTCCCTTTGGAAGAAGATGAAACTGTATCTTTAGTTGCTTG  
GACAACCACTCCCTGGACTCTACCTAGTAACCTTGCTGTGTGTGTTAATCCAGAAATGCAATATGTGAAAATTAA  
AGATGTTGCCAGAGGACGATTACTCATTTTTAATGGAAGCCAGATTGTCAGCCCTCTATAAATTGGAGAGTGACTA  
TGAGATCCTTGAAAGATTTCTGGTGCCTATCTTAAAGGCAAGAAGTACAGGCCCTGTGTTGACTATTTCTCTGAA  
GTGTAAAGAGAATGGCGCTTTCACTGTGCTTGTTGACAACCTATGTGAAGGAAGAAGAAGGCACAGGGGTTGTCCA  
CCAAGCTCCTTACTTCGGTGTGAGGACTATCGGGTCTGTATGGACTTTAACATTATTCGGAAGACTCACTCCC  
TGTTTGCCCTGTGGATGCTTCAGGCTGCTTCACAACGGAGGTGACAGATTTTCGACGGACAGTATGTGAAGGATGC  
TGACAAAAGTATCATCAGGACTTTGAAGGAACAAGGCCGACTTCTGGTTGCCACCACCTTCACTCACAGTACCC  
TTTTTGCTGGAGATCAGACACTCCTCTAATTTACAAGCAGTGCCAGCTGGTTTGTGCGAGTGGAGAACATGGT  
GGACCAGCTCCTAAGGAACAATGACCTGTGCTACTGGGTCCCAGAGTTGGTACGAGAAAAACGATTGGAAATTG  
GCTGAAAGATGCACGTGACTGGACAATTTCCAGAAACAGATACTGGGGCACCCCATCCCACTGTGGGTGACGCA  
TGACTTTGAGGAGGTGGTATGCATTGGGTGAGTGGCGGAACCTTGAAGAACTGTCAGGAGCAAAGATCTCAGATCT  
CCACAGAGAGAGTGTGACCACCTGACCATTTCCTTACGCTGTGGGAAGGGATCCTTGACCCGCATCTCTGAAGT  
GTTTGACTGTTGGTTTGAGAGTGGCAGCATGCCCTATGCTCAGGTTTCATTACCCGTTTGAAAACAAGAGGGAGTT  
TGAGGATGCTTTTCTGCGAGATTTTCATTGCCGAGGGCATCGACCAAACCAGAGGATGGTTTATACCTGCTGGT  
GCTGGCCACGGCCCTCTTTGGACAACCGCTTTTCAAGAACGTAATTGTGAATGGGCTTGCTCTGGCAAGTGTATGG  
CCAAAAATGAGCAAACGGAAAAAGAATTATCCAGATCCAGTTTCCATCATCCAGAAGTATGGTGTGATGCCCT  
CAGATTATATCTGATTAACTCCCTGTGGTGAGAGCAGAAAACTCCGCTTTAAAGAAGAGGGTGTGCGGGACGT  
CCTTAAGGATGTACTGCTCCCATGGTACAATGCCTATCGCTTCTTAATCCAGAACGTTCTGAGGCTCCAGAAGGA  
GGAAGAAATAGAATTTCTCTACAATGAGAACACGGTTAGAGAAAGCCCCAACATTACAGACCGGTGGATCCTGTC  
CTTCATGCAGTCTCTCATTGGCTTCTTTGAGACTGAAATGGCAGCTTATAGGCTTTTACTGTGGTGCCTCGCT  
GGTCAAGTTTGTAGATATTCTGACCAATTGGTATGTTAGAATGAACCGCAGAAGATTAAAGGGTGAAGATGGGAT  
GGAGGATTGTGTCATGGCCCTAGAAACCTTGTTTAGTGTCTGCTTTCCTTTGACAGCTTATAGCTCCCTACAC  
ACCTTTTCTCACTGAATTGATGTACCAGAATCTAAAGGTGCTGATTGACCCTGTTTCTGTTTACGACAAGGACAC  
ACTCAGCATTCACTACCTCATGCTGCCCGTGTTCGAGAAGAATTGATTGACAAGAAAACAGAGAGTGCAGTATC  
TCAGATGCAGTCTGTGATTGAACTTGGAAAGAGTGATCAGAGACCGAAAACTATTCCCATAAAGTATCCTTTGAA  
AGAAATTGTGGTTATCCATCAAGATCCAGAAGCTCTTAAAGATATCAAGTCTTTGGAGAAGTATATCATTGAGGA  
ACTCAATGTTGGAAGATTACACTGTCTACAGATAAAAAACAGTATGGCATTCCGGCTAAGGGCAGAACCAGATCA  
CATGGTCTTGGGGAAGCGTCTGAAGGGAGCCTTTAAGGCAGTGATGACGTCCATCAAGCAGTTGACAGTGAGGA  
GCTGGAGCAGTTCCAGAAGACTGGGACCATTGTTGTGGAAGGCCATGAATTGCACGATGAAGACATCCGCCCTCAT  
GTACACCTTTGATCAGGCCACAGGTGGGACTGCGCAATTTGAAGCACACTCAGATGCTCAGGCTTTGGTCTCTT  
AGATGTCACTCTCTGACCAGTCAATGGTAGATGAAGGAATGGCTCGGGAAGTCATCAATCGCATAACGAACTTCG  
CAAAAAGTGCAATCTGGTTCCAACCTGATGAAATCACAGTGTACTATAAAGCAAAGTCTGAAGGAACATATCTGAA  
TAGTGTTATTGAAAGCCACACAGAGTTCATATTTACCACCATAAAGGCTCCCTTGAAACCATATCCAGTTTCTCC  
ATCGGATAAAGTCTTATTCAAGAAAAACACAGTTGAAGGGATCTGAACCTGGAAATTACACTACCCAGAGGATC  
TTCCCTTCTGGTCTGCTTGTGCATATGTCAATCTTAACATTTGTGCAAATGGCAGTGAACAAGGTGGAGTATT  
GCTCCTGGAAAAATCCAAAAGGTGACAATAGGTTGGACCTTTTAAAGCTGAAGAGTGTGTCTACTAGCATTTTGG  
TGTGAAAAATACAGAGCTGGCTGTCTTCCATGATGAAACAGAAATACAAAACCAACTGACTTACTGAGTCTTAG  
TGGAAAAACACTTTGTGTGACTGCAGGATCGGCTCCCTCTCTGATCAACAGTTCTAGTACTCTTCTTGTGAGTA

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**FIGURE 2716B**

TATCAACCTACAGCTCCTGAATGCAAAGCCACAAGAGTGTTTAAATGGGGACAGTGGGCACTCTCCTGCTTGAAAA  
CCCACTTGGGCAGAATGGACTCACCCACCAAGGTCTTCTGTATGAAGCAGCCAAGGTGTTTGGCCTTCGGAGCAG  
GAAGCTAAAGCTGTTTCTGAATGAGACCCAAACGCAGGAAATTACAGAAGACATCCCCGTGAAGACTTTGAATAT  
GAAGACTGTGTATGTTTCTGTGTTACCAACAACAGCAGACTTCTAGCATGTACTTATCAATGTTGTTTCGGTCAGC  
CCTTCCCTAATTACACCTATCCCTACACATACATGCACATAGACACACACATGAACACACTGAAGATATTTCCCT  
TCAGGTGTGTGTAATAATATGCTGCTTGGATTGAAATTCAAATGGGATTGATTAGTCAAGTAACTTGAGACCTCAC  
AGTAATCTTCACACTTAACCTTAGACACCTATGCAGTCATGTTGGGAGCAGGTTACAATGTTACTTCAGCCCACA  
GTTTATTTCTATTCTTGAGTTCTTAAGTACAGAAGATAGAAGTGATTTAAATGGCATAGTATATATATCATTTC  
TGGCCTTTTAAATTTATTTGAGACCTCTTGATGAAATGGACATATTATATATTTCTGCCACCTGGATTTTCCTG  
GATAATTTGATGGAATATTTTAAGTTTCAGTAAATCAGAACAATAAAACAAACTCAGATAT

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**FIGURE 2717**

MLQQVPENINFPAEEEEKILEFWTEFNCFQECLKQSKHKPKFTFYDGPPFATGLPHYGHILAGTIKDIVTRYAHQS  
GFHVDRRFGWDCHGLPVEYEIDKTLGIRGPEDVAKMGITEYNNQCRAIVMRYSAEWKSTVSRLGRWIDFDNDYKT  
LYPQFMESVWWVFKQLYDKGLVYRGVKVMPFSTACNTPLSNFESHQNYKDVQDP SVFVTFPLEEDET VSLVAWTT  
TPWTLPSNLAVCVNPEMQYVKIKDVARGRLILMEARLSALYKLES DYEILERFPGAYLK GK KYRPLFDYFLKCK  
ENGAF TVLV DNYVKEEEGTGVVHQAPYFGAEDYRVCMDFNIIRKDSL P VCPVDASGCFTTEVTDFAGQYVKDADK  
SIIRTLKEQGRLLVATTFTHSYPFCWRS D TPLIYKAVPSWFVRVENMVDQLLRNNDLCYWVPELVREKRFGNW LK  
DARDWTISR NRYWGTP I PLWVSDDFEEVVCIGSVAELEELSGAKISDLHRESVDHLTIPSR CGK GSLHRISEVFD  
CWFESGSM PYAQVHY PFENKREFEDAFPADFIAEGIDQTRGW FYTLLVLATALFGQPPFKNVI V NGLVLASDGQK  
MSKRKKNY PDPVSIIQKYGADALRLYLINSPV VRAENLRFKEEGVRDVLKDVLLPWYNAYRFLIQNVLR LQKEEE  
IEFLYNENTVRES PNITDRWILSFMQSLIGFFETEMAAYRLYTVVPRLVKFVDILT N WYVRMNRRLKGENGMED  
CVMALET LFSVLLSLCRLIAPYTFPFLTELMYQNLKVLIDPVS VQDKDTLSIHYLMLPRVREELIDKKTESAVSQM  
QSVIELGRVIRDRKTIP I KYPLKEIVVIHQDPEALKD IKSLEKYIIEELNVRKVT LSTDKNKY G IRLRAEPDHMV  
LGKRLKGAFKAVMTSIKQLSSELEQFQKTGTIVVEGHELHDEDIRLMYTFDQATGGTAQFEAHSDAQALVLLDV  
TPDQSMVDEGMAREVINRIQKL RKKCNLVPTDEITVYYKAKSEGTYLNSVIESHTEFI FTTIKAPLKPYPVSPSD  
KVLIQEKTQLKGSELEITL TRGSSLP GPACAYVNLNICANGSEQGGVLLLENPKGDNRLDLLKLKSVVTSIFGVK  
NTELAVFHDETEIQNTDLLSLSGKTL CVTAGSAPSLINSSSTLLCQYINLQLLNAKPQECLMGTVGTLLLENPL  
GQNGLTHQGLLYEAAKVFG LRSRKLKFLNETQTQEITEDIPVKT LNMKTVYVSVLP TTADF

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**FIGURE 2718A**

CGGGCAGCGTGGACCCCGGATGAGTTGCTTTTAGGCTTGCTGGCCCGCGGGGCTGTCCAGGCACGCGAGGCCCTT  
CAGGTACGCCCTCTCTTCCCTGCAGGATCCGGCCCTCAAAGACGAGGGTCACGCACGCGTTACAACCCCGAAACA  
GTAGCACAAAGATTTAATTTTAAAGAGCGTGTTTCTTCGGGGCTTGCCGTTTCGTTTCGTTTCCAGCCTCAGGAAT  
TTATGGTCGCCCTTTTGAATGAGCAACAAATGCTTCAACAAGTTCAGAAAACATAAATTTTCTGCTGAAGAA  
GAGAAAATCTTGGAGTTTTGGACTGAATTTAATTGTTTTTCAGGAATGCTTAAAGCAATCAAAACATAAACAAAA  
TTTACCTTCTATGATGGTCCCTCTTTTGCAACTGGACTGCCCTCACTATGGACATATACTTGGGGGTACAATTTAA  
GATATAGTTACAAGATATGCTCACCAGAGTGGGTTTCATGTTGACAGAAGATTGGATGGGATTGCCATGGCTTA  
CCTGTGGAATATGAAATTGATAAGACACTGGGAATCAGAGGACCAGAGGATGTGGCCAAAATGGGGATTACAGAG  
TATAACAATCAGTGCCGAGCAATTGTGATGAGATATTCTGCTGAGTGGAAAGTCTACTGTTAGCAGACTTGGCCGA  
TGGATTGACTTTGACAATGACTATAAACTCTGTATCCACAATTCATGGAATCAGTCTGGTGGGTCTTCAAACAA  
CTCTATGATAAAGGCCCTTGTTTATAGAGGTGTGAAAGTCATGCCCTTCTCTACGGCATGTAACACTCCACTTTCC  
AACTTCGAGTCACACCAGAATTATAAGGATGTTCAAGATCCTTCAGTATTTGTAACCTTTCCCTTTGGAAGAAGAT  
GAAACTGTATCTTTAGTTGCTTGGACAACCACTCCCTGGACTCTACCTAGTAACCTTGCTGTGTGTGTTAATCCA  
GAAATGCAATATGTGAAAATTAAAGATGTTGCCAGAGGACGATTACTCATTTTAAATGGAAGCCAGATTGTCAGCC  
CTCTATAAATTGGAGAGTGACTATGAGATCCTTGAAAGATTTCTGGTGCCTATCTTAAAGGCAAGAAGTACAGG  
CCCCTGTTTGACTATTTCCCTGAAGTGTAAGAGAATGGCGCTTTCAGTGTGCTTGTGACAACATATGTGAAGGAA  
GAAGAAGGCACAGGGGTTGTCCACCAAGCTCCTTACTTCGGTGCTGAGGACTATCGGGTCTGTATGGACTTTAAC  
ATTATTCGGAAGAGCTCACTCCCTGTTTGCCCTGTGGATGCTTCAGGCTGCTTCACAACGGAGGTGACAGATTTT  
GCAGGACAGTATGTGAAGGATGCTGACAAAAGTATCATCAGGACTTTGAAGGAACAAGGCCGACTTCTGGTTGCC  
ACCACCTTCACTCAGACTACCTTTTTTGGCTGGAGATCAGACACTCCTCTAATTTACAAAGCAGTGGCCAGCTGG  
TTTGTGCGAGTGGAGAACATGGTGGACCAGCTCCTAAGGAACAATGACCTGTGCTACTGGGTCCCAGAGTTGGTA  
CGAGAAAACGATTTGGAAATTGGCTGAAAGATGCACGTGACTGGACAATTTCCAGAAAACAGATACTGGGGCACC  
CCCATCCCCTGTGGGTGAGCGATGACTTTGAGGAGGTGGTATGCATTGGGTGAGTGGCGGAACCTGAAGAACTG  
TCAGGAGCAAAGATCTCAGATCTCCACAGAGAGAGTGTGACCACCTGACCATTCCCTTCACGCTGTGGGAAGGGA  
TCCTTGCACCGCATCTCTGAAGTGTTTGACTGTTGGTTTGAGAGTGGCAGCATGCCCTATGCTCAGGTTCAATTAC  
CCGTTTGAACAAGAGGGAGTTTGAGGATGCTTTTCTGCGAGATTTCAATTGCCGAGGGCATCGACCAAAACCAGA  
GGATGGTTTTATACCTGCTGGTGCTGGCCACGGCCCTCTTTGGACAACCGCCTTTCAAGAACGTAATTGTGAAT  
GGGCTTGCTCTGGCAAGTGATGGCCAAAAAATGAGCAACGGAAAAAGAATTATCCAGATCCAGTTTCCATCATC  
CAGAAGTATGGTGCTGATGCCCTCAGATTATATCTGATTAACCTCCCTGTGGTGAGAGCAGAAAACCTCCGCTTT  
AAAGAAGAGGGTGTGCGGGACGTCTTAAGGATGTAAGTCTCCATGGTACAATGCCATATCGCTTCTTAATCCAG  
AACGTTCTGAGGCTCCAGAAGGAGGAAGAAATAGAATTTCTCTACAATGAGAACACGGTTAGAGAAAGCCCCAAC  
ATTACAGACCGGTGGATCCTGTCTTCATGCAGTCTCTCATTGGCTTCTTTGAGACTGAAATGGCAGCTTATAGG  
CTTTATACTGTGGTGCCCTCGCTGGTCAAGTTTGTAGATATTCTGACCAATTGGTATGTTAGAATGAACCGCAGA  
AGATTAAAGGTGAAAATGGGATGGAGGATTGTGTCATGGCCCTAGAAAACCTTGTTTAGTGTTCTGCTTCTCTT  
TGCAGACTTATAGCTCCCTACACACCTTTTCTCACTGAATTGATGTACCAGAATCTAAAGGTGCTGATTGACCTT  
GTTTCTGTTTCAGGACAAGGACACACTCAGCATTCACTACCTCATGCTGCCCCGTGTTTCGAGAAGAATTGATTGAC  
AAGAAAACAGAGAGTGAGTATCTCAGATGCAGTCTGTGATTGAACCTGGAAGAGTGATCAGAGACCGAAAACT  
ATCCCATAAAGTATCCTTTGAAAGAAATTGTGGTTATCCATCAAGATCCAGAAGCTCTTAAAGATATCAAGTCT  
TTGGAGAAGTATATCATTGAGGAACCTCAATGTTTCGAAAAGTTACTGTCTACAGATAAAAACAAGTATGGCATT  
CGGCTAAGGGCAGAACAGATCACATGGTCTTGGGAAGCGTCTGAAGGGAGCCTTTAAGGCAGTGATGACGTCC  
ATCAAGCAGTTGAGCAGTGAGGAGCTGGAGCAGTTCCAGAAGACTGGGACCATTGTTGTGGAAGGCCATGAATTG  
CACGATGAAGACATCCGCCTCATGTACACCTTTGATCAGGCCACAGGTGGGACTGCGCAATTTGAAGCACACTCA  
GATGCTCAGGCTTTGGTCTCTTAGATGTCACTCCTGACCAGTCAATGGTAGATGAAGGAATGGCTCGGGAAGTC  
ATCAATCGCATAACAGAACTTCGCAAAAAGTGCAATCTGGTTCCAAGTATGAAATCACAGTGTAATAAAGCA  
AAGTCTGAAGGAACATATCTGAATAGTGTTATTGAAAGCCACACAGAGTTTCAATTTTACCACCAATAAAGGCTCCC  
TTGAAACCATATCCAGTTTCTCCATCGGATAAAGTCCTTATTCAAGAAAAAACAGTTGAAGGGATCTGAACTG  
GAAATTACACTCACCAGAGGATCTTCCCTTCTGGTCTGCTTGTGCATATGTCAATCTTAACATTTGTGCAAT  
GGCAGTGAACAAGGTGGAGTATTGCTCCTGGAATAAAGGTGACAATAGGTTGGACCTTTTAAAGCTGAAG

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## FIGURE 2718B

AGTGTGTGCTACTAGCATTTTTGGGTGTGAAAAATACAGAGCTGGCTGTCTTCCATGATGAAACAGAAATACAAAAC  
CAAACCTGACTTACTGAGTCTTAGTGGAAAAACACTTTGTGTGACTGCAGGATCGGCTCCCTCTCTGATCAACAGT  
TCTAGTACTCTTCTTTGTGAGTATATCAACCTACAGCTCCTGAATGCAAAGCCACAAGAGTGTTTAATGGGGACA  
GTGGGCACTCTCCTGCTTGAAAACCCACTTGGGCAGAAATGGACTCACCCACCAAGGTCTTCTGTATGAAGCAGCC  
AAGGTGTTTGGCCTTCGGAGCAGGAAGCTAAAGCTGTTTCTGAATGAGACCCAAACGCAGGAAATTACAGAAGAC  
ATCCCGTGAAGACTTTGAATATGAAGACTGTGTATGTTTCTGTGTTACCAACAACAGCAGACTTCTAGCATGTA  
CTTATCAATGTTGTTTCGGTCAGCCCTTCCCTAATTACACCTATCCCTACACATACATGCACATAGACACACACA  
TGAACACACTGAAGATATTTCCCTTCAGGTGTGTGTAATAATGCTGCTTGGATTGAAATTCAAATGGGATTGATT  
AGTCAAGTAACTTGAGACCTCACAGTAATCTTCACACTTAACCTTAGACACCTATGCAGTCATGTTGGGAGCAGG  
TTACAATGTTACTTCAGCCACAGTTTATTTCTATTCTTGAGTTCTTAAGTAÇAGAAGATAGAAGTGATTTAAAT  
GGCATAGTATATATATCATTTTCTGGCCTTTTAAATTTATTTGAGACCTCTTGATGAAATGGACATATTATATA  
TTTCTGCCACCTGGATTTTCTTGATAATTTGATGGAATATTTTAAGTTTCAGTAAATCAGAACAATAAACAAAC  
TCAGATAT



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**FIGURE 2719**

MLQQVPENINFPAEEEEKILEFWTEFNCFQECLKQSKHKPKFTFYDGPPFATGLPHYGHILAGTIKDIVTRYAHQS  
GFHVDRRFGWDCHGLPVEYEIDKTLGIRGPEDVAKMGITEYNNQCRAIVMRYSAEWKSTVSRLGRWIDFDNDYKT  
LYPQFMESVWWVFKQLYDKGLVYRGVKVMPFSTACNTPLSNFESHQNYKDVQDPSVVFVTFPLEEDETIVSLVAWTT  
TPWTLP SNLAVCVNPEMQYVKIKDVARGRLILMEARLSALYKLES DYE I LERFP GAYLKGKKYRPLFDYFLKCK  
ENGAFTVLVDNYVKEEEGTGVVHQAPYFGAEDYRVCMDFNIRKDSLPCVPVDASGCFTTEVTDFAGQYVKDADK  
SIIRTLKEQGRLLVATTFTHSYPFCWRS DTP LIYKAVPSWFVRVENMVDQLLRNNDLCYWVPELVREKRFGNWLK  
DARDWTISRNYWGTP IPLWVSDDFEEVVCIGSVAEELEELSGAKISDLHRESVDHLTIPSRCGKGS LHRISEVFD  
CWFESGSMFYAQVHYPFENKREFEDAFPADFIAEGIDQTRGWFYTL LVLALATLFGQPPFKNVIVNGLVLASDGQK  
MSKRKKNYPDPVSIIQKYGADALRLYLINSPVVR AENLRFKEEGVRDVLKDVLLPWYNAYRFLIQNVLR LQKEEE  
IEFLYNENTVRESPNITDRWILSFMQSLIGFFETEMAAYRLYT VVPRLVKFVDILT N WYVRMNRRLKGENG MED  
CVMALET LFSVLLSLCRLIAPYTPFLTELMYQNLKVLIDPVS VQDKDTLSIHYLMLPRVREELIDKKTESAVSQM  
QSVIELGRVIRDRKTIP IKYPLKEIVVIHQDPEALKDIKSLEKYIIEELNVRKVTLSTDKNKYGIRLRAEPDHMV  
LGKRLKGAFKAVMTSIKQLSSEEELEQFQKTGTIVVEGHELHDEDIRL MYTFDQATGGTAQFEAHSDA QALVLLDV  
TPDQSMVDEGMAREVINRIQKL RKKCNLVP TDEITVYYKAKSEGTYLNSVIESHTEFIFTTIKAPLPYPVSPSD  
KVLIQEKTQLKGSELEITLTRGSSLP GPACAYVNLNICANGSEQGGVLLLENPKGDNRLDLLKLKSVVTSIFGVK  
NTELAVFHDETEIQNTDLLSLSGKTL CVTAGSAPSLINSSSTLLCQYINLQLLNAKPQECLMGTVGTLLLENPL  
GQNGLTHQGLLYEAAKVFLRSRKLKFLNETQTQEITEDIPVKTLNMKTVYVSVLPTTADF

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FIGURE 2720A

TGAGGAGGGCCCGCCTGCGAGAGCCTCAGTGGGAGCCGGCTCAGCCCTCGGCCACCAATGTCGGCGCCGTCGGAG  
GAGGAGGAGTACGCGCGGCTGGTGATGGAGGCGCAGCCGGAGTGGCTGCGCGCCGAGGTGAAGCGGCTGTCCAC  
GAGCTGGCCGAGACCACGCGTGAGAAGATCCAGGCGGCCGAGTACGGGCTGGCGGTGCTCGAGGAGAAGCACCAG  
CTCAAGCTGCAGTTTCGAGGAGCTCGAGGTGGACTATGAGGCTATCCGCAGCGAGATGGAGCAGCTCAAGGAGGCC  
TTTGACAAGCACACAAACCACAAGAAGGTGGCTGCTGACGGAGAGAGCCGGGAGGAGAGCCTGATCCAGGAG  
TCGGCCTCCAAGGAGCAGTACTACGTGCGGAAGGTGCTAGAGCTGCAGACGGAGCTGAAGCAGTTGCGCAATGTC  
CTACCAACACGCAGTCGGAGAATGAGCGCCTGGCCTCTGTGGCCAGGAGCTGAAGGAGATCAACCAGAATGTG  
GAGATCCAGCGTGGCCGCTGCGGGATGACATCAAGGAGTACAAATCCGGGAAGCTCGTCTGCTGCAGGACTAC  
TCGGAACCTGGAGGAGGAGAATCAGCCTGCAGAAGCAAGTGTCTGTGCTCAGACAGAACCAGGTGGAGTTTGAG  
GGCCTCAAGCATGAGATCAAGCGTCTGGAGGAGGAGACCGAGTACCTCAACAGCCAGCTGGAGGATGCCATCCGC  
CTCAAGGAGATCTCAGAGCGGCAGCTGGAGGAGGCGCTGGAGACCCTGAAGACGGAGCGCAACAGAAGAAGCAGC  
CTGCGCAAGGAGCTGTCACTACATGAGCATCAATGACTCCTTCTACACCAGCCACCTGCATGTCTCGCTGGAT  
GGCCTCAAGTTTCACTGACGATGCTGCCGAGCCCAACAACGATGCCGAGGCCCTGGTCAATGGCTTTGAGCACGGC  
GGCCTGGCCAAGCTGCCACTGGACAACAAGACCTCCACGCCCAAGAAGGAGGGCCTCGCACCGCCCTCCCCAGC  
CTCGTCTCCGACCTACTCAGTGAGCTCAACATCTCTGAGATCCAGAAGCTGAAGCAGCAGCTGATGCAGATGGAG  
CGGGAAGAGCGGGCCTGCTGGCAACGCTGCAGGACACACAGAAGCAGCTGGAGCACACGCGGGGCTCCCTGTCA  
GAACAGCAGGAGAAGGTGACCCGCTCACAGAGAATCTGAGTGCCCTGCGCGCCTGCAGGCCAGCAAGGAGCGG  
CAGACAGCCCTGGACAACGAGAAGGACCGTGACAGCCATGAGGATGGGGACTACTACGAGGTGGACATCAACGGG  
CCTGAGATCTTGGCTGCAAGTACCATGTGGCTGTGGCTGAGGCTGGCGAGCTCCGCGAGCAGCTCAAGGCACTG  
CGCAGCACGCACGAGGCTCGTGAGGCCAGCACGCCGAGGAGAAGGGCCGCTATGAGGCTGAGGGCCAGGCACTC  
ACGGAGAAGGTCTCCCTGCTAGAGAAGGCCAGCCGCCAGGACCGCGAGCTGCTGGCCCGGCTGGAGAAGGAGCTA  
AAGAAGGTGAGCGACGTGCGCGGCGAGACACAGGGCAGCCTGAGTGTGGCCAGGATGAGCTGGTGACCTTCAGT  
GAGGAGCTGGCCAATCTCTACCACCAGTGTGCATGTGCAACAATGAGACACCCAACCGTGTCTGCTGGACTAC  
TACCGCGAGGGCCAGGGCGGGCGGCCGACCAAGTCCCGGGGCGCCAGCAGCCCGAGGCGCGTGGCCGGCGC  
TCACCCATCTCTTACCAAGGGGCTGCTGGCTCCTGAGGCGGGCCGAGCAGATGGTGGGACGGGGACAGCAGC  
CCCTCGCCTGGCTCCTCACTGCCATCACCCCTGAGTGACCCAGCCGGGAGCCCATGAACATCTACAACCTGATC  
GCTATCATCCGTGACCAGATCAAGCACCTGCAGGCAGCCGTGGACCGCACCACGGAGCTGTACGCCAGCGCATT  
GCCTCTCAGGAGCTGGGCCCCGCGTGGACAAGGACAAGGAAGCGCTTATGGAGGAGATCCTCAAGCTGAAGTCG  
CTGCTCAGCACCAAGCGGGAGCAGATCACCACGCTGCGCACTGTGCTCAAGGCCAACAAGCAGACGGCCGAGGTG  
GCCCTTGCCAACCTGAAGAGCAAGTATGAGAAAGAGAAGGCCATGGTTACCGAGACCATGATGAAGCTGCGCAAT  
GAGCTCAAGGCCCTCAAGGAGGACGCAGCCACCTTCTCCTCGCTGCGTGCTATGTTTGCCACCAGGTGTGACGAG  
TACATTACAGCTGGATGAGATGCAGCGGCAGCTGGCGGCTGCTGAGGACGAGAAGAAGACGCTGAACCTGCTG  
CTGCGCATGGCCATCCAGCAGAAGCTGGCGCTGACCCAGCGGCTGGAGCTGCTCGAGCTGGACCATGAGCAGACC  
CGGCGTGGCCGTGCCAAAGCCGCCCCGAAGACCAAGCCAGCCACACCGAGCGTAAGTCACACCTGTGCTGTGCC  
AGCGACAGGGCCGAGGGCACCGGCTGGCCAACCAGGTGTTCTGCAGCGAGAAGCACAGCATTACTGTGATTAG

GGGCTGTGGGCGCCGACGCTGCAGCTAACATCTGCTTACCTCAACTAACCAGCAGCAGCGGGACGGCGGTG  
CTAGGTCAATCTTAACGTGACTAATGCACAGAGGGTAGGAGTCTAGCCGAGGCGCCATGGGGCGTTGCATCAGCA  
GGACACTTGTGAGAGCTTTGTGTCGCTTCTCACTCCTCAAAGCCCCCTCAGGAGCACCAGTCTCAGCTGCTCT  
CTTAGGTGGGGGTGAGAGGTGGGGATAGAGCTGCACATTCTTGACGAGATGTGTGATGAAAGCATCTTCTAAGC  
CCTGCGCACCCGTGGGGAAACCAAGGGAGGAGTCTGGTCTGCTCCCTCAGCACCCAAAAGGGGCAGAACCTG  
AGTTGAGACTTGCATGTTCTCGCATGTGTCTAATGTCAGCACTAGAAAGCAGTTTTAGGAGGTTCCAGCCTGCA  
GCATAGGTACGACCTCAGAGGATGGCTTTGCACTTGGCATAGTTTTCATGGAAAGGAGTACGTTGTAGTTTATGCA  
GTATCTGACTGCAAATCATATTCAGGAAAGAAGTGCAAAATTTCTTCCCCAAGCCAGAGAAGAGCAGCCCTGAG  
CCCCTGTATTCTGCTGGCCAGACACATGGCACAGACACAGCTGACCATAACCCAGGAATCCAGAGCTCGGTTT  
CTCATTTCTGAGATCAGGATGCTTGTATAGTGGCTGTGAGGTGACAGATTGGCAGGGCCCAAGGCCCCAGGTTT  
TCATTTTTTCATGAGAAAAGCTTTCCAAGTGCTGGCCAGACCTTGGTCTTAGTGACAGAGCCCGTCTTTTGTAC  
TTGGGGTGACCCAGCAGCCAATTATCCGGCCTTCCATAGGGGGTTCAAGTCCCAAAGACATGGGGCTTTGAAAAC  
CCTAGCCTGAAGTCTGAGCCACCAAGGGCTTGGCTGGGTGGACACCCACAGGTGTATCCAGAGCCAGCCCGGT

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**FIGURE 2720B**

GCTGGGAAAGCTTTGCATAGGGCCAGGGCCACTTGTCTAGGATTACAGGTAGGAGATGTTTAGGTCTCTTTATTT  
AGTGCAATCTGGGGGATGGCAACAGAGAAAGAGGAAAGGTAGCTGTAGGGTTCTCCCATTTCCAGAGGCTCCATC  
CACACCTGCCTTCCACATTCTGAGCAGAACTTTTCTAGTACTTTTTTCCCGATCACCCCTGTGGGACCAGCTGG  
ACCTGAGGCTGCAGTCTTCTCTCCTGCAGGCTGCTTGCCCTGTCTCTCATGCGGAAGAGGCATTTCGAGTTACCTG  
GTGAGAGACCGTGTGCCCCCTCCACAGCTCTCTGCCCTGCGCGTTCTTCCCTTTGGTGCCGAGTATGTTTCGG  
TCCCTCCAGACTCCAGGACACGCCCATGTATGTCCCTGCGTGTTTCATCCTGGGCCAGATCCCCCTGCCCCAG  
CAAGACTCGCAGTGGGATGGCTGCTGGCATGCCACCCTGCATGCGCTTTGCCCTCTCCTTGCAAGCCTGGCACA  
TAGCTTCTCTCCATACTCCTAAGGGACTTTGCAGACACCAAGCCACTGGGACCCCTGCTAACACATGCAGGTCT  
TCTCTTCTGCCAACTAACGTGCTCGCGCCCTCCAGCACGTGGAGAGCTTCAATTGTCTAGATAAACAGGAAGCGA  
CAGATGACCGCTTTCTAACGCTCTCTTTTCTCCCGTTTTTCAGCTGTAGAGTAGCTGCCAGGAGGACTTGGCCACC  
CGGCCCTGTCACTGCAGCCCCCTTCCCTTCCCTCTCGTGCCCCACAAGGAGGAAGGAAGGGCAACCTAAAAGC  
CCACTTAGAACTTTTTGGATATGCCACTGCAATTCTTTTCAAATAGCATTCCCCAGGTTTTTAATGGGAGGAA  
AAAAAGCTTTAATGTTGAGCATGCTGCGAGCTGCTGCGTGGAAGGCCTCTGTATGGGCCGAAGACCCCTTCTTCC  
CTGGCTGCCAGGCTCGCCAGGAGCCCACTGGAACGCCCCACCAGGGGGCTCCTTGTTACACATGTTCTTTTTTT  
ATCCGATCAACCTGTGCATTTTGATATTTTGATATTATATTGCTTCCTTAATTCCTCGCGTAGAGACGGTCTC  
AGGTGCCGTGGTCTATGCTCGTGGTCTGTAGCTGTCCGCCTCAGCTCCCACCGTGTGTTGTCTGGTGTGTCAGCAG  
AGGCAGAGCTGTGTGCTCCATAGCGTGTAGCTTTAGACTCGGAGATGAGTGTCTTGACCCAGCGAGGAGCTCAGC  
TAAGTGTATCCACGCTGTGGTTCAGCAGCCTTTAGATCATACGGCATTGTGGTTTCATGTTTGAATTTACAGATTT  
TAAATGCCATGTTTATTAAAGAAATCCAGGGTATTTCAGATTCTGGGGTTTTTCAATTGTATTATTATTATTCTTA  
GGAATAGTTCAATGTAAACAAGAAGAAACTTGACCTTTTGCTCTGGTTAAACAGTAATAGGCACTTGAAAAAAA  
AGATAAATTATTGAATGAGTAGTATTACCTACAAATTCAGAAATTTCTGGGTTTTAGGACGTTGTGAAGCATGA  
CTGATTAAACAGAATTTTATACAACTGTACCAATAAAATTCAAATTTGGAATTGTTTTGTTACTCTGGTGTGTG  
CCAAATTGTGTACACTTAGAAAATTTCTACAGTCGTCGATTTTTAGGGTGTCTCTTTCAACACCTTTTGTAG  
TAATCATTGCCAGTAGTGCTTCATCAGTTAAGGGAGGTGTCCAGCACAGATCATTCTCAAAGCGAGCAGGGA  
AGAGCTAGTGGGCATGCTGAAGGCCAGCGTGGACAGCAGGTGAGGCAGGTGCTCCTCACACCCAGACCTGGGCAT  
CTTCATTGAGGGAAAGAAAACAGTCATTGTGCAAAATTCGTGTTAGTCAGTGATTCTTTACTTGCAAATTCAGGGG  
CTTAGAAAATGAAAGCAAACACAAAACCTTGAGTGTGCTTTGGGAACCAAATGGACCTTCTGGGACAAGCTGAGC  
AAGCTGTATGAACGCCACGTTTGTGAAGAGCTGAGGGTATCAGGAGGGCCGACGCTGTGTGGCATGCGCAGTAG  
GGGATGAGGGTTAGCCATAGTATTCTTTGCAATGTGAAAGCGAGACATTATATCTTCTCTTGTGTTGGTGTAACT  
AATCACTGTTAATTTAGGAAACAGAACTCATTAAACTCCTTAGCAAACAGGTCTACATCCTGTTTTGTTTGC  
TGAGTGAGGTTAGTGGGAGTGGTCAAATTGGTACTCTTGGAGGAAGAAAACTGTCCTTCCTTCTCCAAAAAGG  
AAAAATTATAATAATAATAATGACAAAAATAAAGAATTCTGTTTCTTGGGAATAAGCATTCTTATTCTAGTTG  
TAGGGACTCCTATTTTTACCTTCCGTTACAGTGTGATTCTATAAGAAATATTGTTACATTGAGATAACTTCATC  
TGATGAGGGTATTTATTTGCAATGATGTCTGAGTACTGTATTTTTCTGTGCATTACCTTAGTGTGAGAATGTTG  
GTCTTTATTTTAAAGTCATATGCATGTTCTCTGCCAAGGAACCTTTACACAGACCCAAACAAAAAATAATAAT  
CAAATGCCTTCAATTTCTGAGAAAATGAGGCAGAGCATGGAAGGAATAGGAAGGAGAAATTAATTGAGATTTT  
CAGGACACAGACATATGATGTGAATGCCTACAAAGCCAGTGCGCATAGGAACAGTGGGCCTGGGTAAAGAGTCAC  
ATTGGTAGGACCAATAAAGAATAATAAAAAAGC

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**FIGURE 2721**

MSAPSEEEYARLVMEAQPEWLRAEVKRLSHELAETTREKIQAAYGLAVLEEKHQLKLQFEELEV DYEAIRSEM  
EQLKEAFGQAHTNHKKVAADGESREESLIQESASKEQYVVRKVLELQTELKQLRNVLTNTQSENERLASVAQELK  
EINQNVEIQRGRLRDDIKEYKFREARLLQDYSELEENISLQKQVSVLRQNQVEFGLKHEIKRLEEET EYLN SQ  
LED A IRLKEISERQLEEAE TLKTEREQKNSLRKELSHYMSINDSFYTSHLHVSLDGLKFSDDAEPNND AEALV  
NGFEHGG LAKLPLDNKTSTPKKEGLAPSPSLVSDLLSELNISEIQKLKQQLMQMEREKAGLLATLQDTQKQLEH  
TRGSLSEQQEKVTRLTENLSALRRLQASKERQTALDNEKDRD SHEDGDY YEV DINGPEILACKYHVAVAEAGELR  
EQLKALRSTHEAREAQAEEKG RYEAEGQALTEKVS LLEKASRQDRELLARLEKELKKVSDVAGETQGSLSVAQD  
ELVTFSEELANLYHHVCMCN NETPNRVMLDYYREGQGGAGRTSPGGRTSPEAR GRRSPILLPKGLLAPEAGRADG  
GTGDSSSPSGSSLP SPLSDPRREP MN IYNLIAIIRDQIKHLQAAVDRTTELSRQRIASQELGPAVDKDKEALMEE  
ILKLKSLSTKREQITTLRTVLKANKQTAEVALANLKS KYEN EKAMVTETMMKL RNELKALKEDAATFSSLRAMF  
ATRCDEYITQLDEMQRQLAAAEDEKKT LNSLRMAIQKQLALTQRLELLELDHEQTRRGRAK AAPKTKPATPSVS  
HTCACASDRAEGTGLANQVFCSEKHSIYCD

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**FIGURE 2722**

GC GG CCTGGGCGGCCGCACCATGGACTCGGGAACCGAGGAGTACGAGCTCAACGGCGGCCTGCCTCCGGGCACAC  
CCGGCTCCCCGGACGCCTCGCCGGCCCGCTGGGGCTGGAGGCACGGGCCCATCAACGTGAACCATTACGCCAGCA  
AGAAGAGCGCAGCCGAGAGCATGCTGGACATCGCGCTGCTGATGGCCAACGCGTCCCAGCTGAAGGCCGTCTGG  
AACAGGGCCCCAGCTTCGCCTTCTATGTGCCCCCTGGTGGTCTCATCTCCATCTCCCTTGTGCTGCAGATCGGCG  
TGGGGGTGCTGCTCATCTTCCTTGTCAAGTACGACCTTAACAACCCGGCCAAGCACGCCAAGCTGGACTTCCTCA  
ACAACCTGGCCACGGGCCTGGTGTTCATCATCGTGGTAGTCAACATCTTCATCACGGCCTTCGGGGTCCAGAAGC  
CCTTGATGGACATGGCACCCCAGCAGTAGGACACCCAGGACCCTGGATGTTGCCTGCCCTGCAACTCAGCTGCCC  
GACCCCAGGAGTCGCCATACCTGTGAGGTGTCCACCTCCCTGCACATGGCACTACCCAGACTGCCAGAGCCCAGG  
CTGGCCTCATCTGCACCATGTCCCCGACCCAGCCCTTGCTCTGACTGCGGCCAAGCACCGCAGGAGGCCACTC  
TTGTCTCTCAGCAGCTGTTCCAGGAGGCAGCTCCCTCCTGGCACATGGGGGCTGGCCACAATAGCCCAGAGGGT  
CAGAACTGGACAGCTGCAGAGACCTGTGCCAGAGAAGGGTCTCGACCCACTCAAGGACACACAGCAGGTCCGTG  
GATGGGCTGGATGAGTGACCAGGGCCAGCCTCTGTCTCAGGACATTCCAGAAGGACAAGGAGATGTCTCTCCCTC  
TCCCAAAGCACCAGCGTCCCTGCCTCCCGTGGGCCCTGTCCGGGTTGCCCTGGTGACCCAGCCTCTGTCCACTT  
CCTAAGCCAGGGACCCTGCACAGCCAGAACTGCCTTTGGCCCTACGGATGGCCACTGGCTCTGGTCTTAAGTGCC  
TGGGCTTGGTGGCCATCAAGAGGGAGCCAGTCAGGCCTGTGAGGGCCGTAGACCTTGTATATACCCTGCACCAGC  
AGTGACCGGGCAGAGCCCAACCCCTCCACGGGGTCCAGCACCCACITTTCTAATCATGAATGAACAATAAAG  
CCCACGCTCTTTGTCAGGC

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**FIGURE 2723**

GCTGCAGCCCTCAGAAGTAAGCAAGGTTTCCTGCCGGGAGAAAAGGATTTGAAGCATTCCAGCCAAAATGACGGA  
CAGAAGCCCTTCGAAACCGACATGCTCACCCTGACCCGCTACGTTATGGAAAAGGGCGTCAGGCCAAAGGGAC  
TGGGGAGCTACCCAGCTGCTGAACTCAATGCTGACGGCCATCAAAGCCATCTCCTCGGCTGTGCGCAAGGCCGG  
TCTGGCCACCTGTATGGAATCGCAGGAAGCGTTAACGTGACGGGAGATGAGGTGAAGAACTGGATGTGCTATC  
CAATTCCTGGTGATCAACATGCTCCAATCCTCCTATAGTACCTGCGTCCTGGTCTCAGAAGAGAATAAGGACGC  
CATCATCACGCCAAGGAGAAGCGGGGAAATACGTGGTCTGCTTTGACCCACTGGATGGATCTTCCAATATTGA  
CTGCCTGGCCTCCATCGGAACCATCTTTGCCATCTATAGAAAGACCTCAGAGGATGAGCCTTCTGAAAAGGATGC  
CCTGCAGTGTGGCCGCAATATTGTGGCCGCAGGTTATGCGCTGTACGGTAGTGCAACCCTGGTGGCTCTCTCCAC  
AGGGCAAGGCGTGGACCTCTTCATGCTTGACCCGGCTCTTGGTGAATTTGTCCTGGTGGAAAAAGATGTCAAGAT  
TAAGAAGAAAGGAAAGATTTACAGCCTGAATGAGGGCTATGCCAAGTATTTTGATGCGGCCACCACTGAATATGT  
GCAGAAAAAGAAATTCCTGAGGATGGCAGTGCTCCCTATGGGGCCAGGTATGTGGGCTCCATGGTGGCTGACGT  
GCACCGCACCTGGTCTATGGAGGAATCTTCCTGTACCCAGCCAACCAGAAGAGCCCTAAGGGCAAGCTCCGGCT  
CCTGTATGAATGCAATCCCGTGGCCTACATCATTGAGCAGGCAGGAGGCTTGGCGACCACGGGGACCCAGCCTGT  
ACTGGACGTGAAGCCCGAGGCAATTCACCAGCGAGTCCCCCTCATCTGGGGTCACCAGAGGATGTGCAGGAATA  
TCTCACCTGTGTGCAGAAAAATCAGGCAGGCAGCTAGCGAGTTTGACCCACATGCCCTCTTCTGTTTGTGTTTGC  
ACCTTGCTCTAAGGACCCTAAATGAACGATAAACAGAGATGGTAGCTATGAGTATGCAAAAGGTAAATCCACTTAA  
TCACATACAGAAGAGCAACAACAACTGCTTACGACAGGTTTGGAAAGCCACAGGCGATTCTATGGTCAATGTGAA  
GGACTAGAAATAAAAACCCACATGTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2724**

MTDRSPFETDMLTLTRYVMEKGRQAKGTGELTQLLNSMLTAIKAISSAVRKAGLAHLYGIAGSVNVTGDEVKKLD  
VLSNSLVINMLQSSYSTCVLVSEENKDAIITAKEKRGKYVVCFDPLDGSSNIDCLASIGTIFAIYRKTSEDEPSE  
KDALQCGRNIVAAGYALYGSATLVALSTGQGVDLFMLDPALGEFVLVEKDVKIKKKGKIYSLNEGYAKYFDAATT  
EYVQKKKFPEDGSAPYGARYVGSVMVADVHRTL VYGGIFLYPANQKSPKGKLRLLYECNPVAYIIEQAGGLATTGT  
QPVLDVKPEAIHQRVPLILGSPEDVQEYLTCVQKNQAGS

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**FIGURE 2725A**

CCGAATAGTTAGCCAAGACTACCCGCAGCATCAATAGTCGGCTCCCTGGCCCAGGGCCTGGAGAGTAACTGGCCA  
AGTGGGTGCTGGGCTGGTATGGGAGCCCCGGGTCCCTGGAGCACCTTGCTGGCTGTGGCAGTCACCGGGAAGCA  
GAGGCTGTCCACCTGGAGGCACAGCGGCACTCCTTGGCACTATTTTGGCCACTTCAGGTTTTATAATCTGTTGAA  
ACAAAAATTGTGGGGGAACATCTTGAGTAGGTTTAGAGATGGAATGGGAAGCCTGGCAGAAAGCGCTGGTCCAGTC  
TTCAGGGTCACGGCTGATACAGGAGTTAAGCGGCCGTGTGACTCCAAAGCCTAGCTTCTGCAAGCAGATGTTTT  
CTTCTAGCCATGTGTGAATTGGAGGTTCCCTTGGGCTGTCCACGCCTGGTCATCGGCTGGCAGGAGGCTCTCCAGG  
CACACGCAGCACACACAGCACATGCACCACACGTAGCACACACACTGCATGCAGCACACACACACCAGAGGACGC  
ACCACACAGAGCAGCACAGCACACACCACACAGCGCACGCACCACACAGAGCACACGCGGCACACACAGCACAC  
ACAGCGCACGCACCACGCAGAGCACACACGGCACATGCAGCATACACACAAACAGCGCACGCACCACACAGAGC  
ACACGCGGCACACGCAGCACACACACCACACAGAGCACCTGGAGCACCCACAGCACACACACCACGCAGAGTACA  
CGCGGCACACACACCACACACAGCGCATGCACAACACAGAGCACACACAGCACATGCACCACACGTAGCGCGCAC  
ACTGCATGCAGCACACACACCACACACAGCGCGTGCACCACACAGAGCACCTGCGGCACACACAGCACACACCGC  
ACGCACCACACAGAGCACATGTGGCACACACAGTGCACGCACCACACAGCACCCCGCGGCGCACACAGCACACGTG  
GCATATGGCCTCCATGACCCTGTGTCTTGAGGGCAGGTCTACTTTTTTGCTTGTGTGTGGAGCGGAATTTCT  
CCCCTGGCTTCTATTGGAGTCTTAGATTATTTAAATCACTTCTCTGTTAATTGTGCCTGGAATTAACCTGTTAG  
ATTTACTTCTTAGCAGTTAGTTGCTCAGTATGGGTTTCTACACTATTAAAGCAACCTAGCGGTAGTACACAAGGT  
TTTGTTAGGATAGCTGTGAGATTTTTTTCTCTAACAATCATCATTATTTCTGTGTCTGCTCCGTTTTTCTTCAG  
TGTTTTATATGATATTAATAGGGGATGTCTAATTTTGTATCTTTAAAAAACTTTATCAAATCTGAAGCATT  
CGTGTATAGCTTCTCTATAATTTTTTATGGATATTGAATATTTGGTGTGATATCTTCACTCAGTTTTGAACA  
TTGAGTTTTCTTCTAATGTTTTGTGCTTATGAAAACATTTCTGTGTAACGTGTTAAGTAGCTTATTTATCTGA  
AAGAACTCTAATAATGAAAAGAAATAAAAAGTTTTTTCAGAACATGATCATATTCTTCCAGAAGAGTCAGGAACC  
ATGTGTGCCAGGAAAGGAAACGGGACTGAGCGTCTCGTAGCGAAACGCCGTGCTGCAGACTTGACGCGGCTCCCC  
TCCAGGACGGGCTGGCGGCACACAGACTGTGCACTTACCTCACTGCCGGCCTCATAATAGTAATCAGTGTAATG  
GTGTTTTCTTTCTGTTTTGTTATTTCTGTCGTACGTGTTAAAGTGTGTGAAACTACAAGGCCAGCTAGTCCTTT  
CATCATTCCTTTGGTGCAGGTTTTTGGAGCAGCACACCACAGGGCACACCCCTCGCCACTCTTTATGGGGAATTTTT  
GCCCAGGCAGGCAAAGGAGTCATCTTGGTCACAAGTCTCCCTTTTCCCCCTCCCCAGCATCTTCGATCCTGTCCC  
CACCCCTCCAGATGCATCCAGGGGTTGCAAGCCTGCCCCCCAACCACTCCCGTGAGGAACAGTGGCCGGGATTG  
TCCCAGGGCCCCCTCCAGCAGGGGGACCTCCTGACTTGAGAGTCCCCAAAGCCTTCCCAGGGCAGCTAGAATCTG  
CCTGGAGAGAAGGGATCTTGTCCCCAAGGGTTAGAGGCAGTAACTAATAGCAAGGACAGCTGCCTTTAGCAATT  
GTGTGTGTGCGATGGCCGGTCCCTGCATTTTTCTTCAGTTCCAAAGCTGCAGTGGCATTTTATGGTCATCTCTG  
GAGTCCCTTTGATTCAAGAAATTATACCTCTAGGATGCCAACTAAACGAACAACAACAGAACTCCACCTGTTT  
GCTAGCATAAACAGGCGTGAAGGCGGCAGTGTCCCGGCGTCCCTCCGCGGAAGCCAGTGTGTGCAGACAGCAG  
GGGTGGCGCTGCTCTCAGGTGCTCTGGCTGCTTGGGTCTCTGGCATGCTGATTGTGACTTAAGATTAATAAC  
ATTGCCAGGGATTACCACGCAACCACGACCTTGCTGCTCCTCCAGAAACCGTGGTTCGCGCTCACTGCAGATTGG  
AGAACAGGTGCATCTCGTAGCTCTTCTTTGGAACAAAAGAAGCCACCAGCTGAGGAAGATGCTACCGGTCACC  
GTCCCTTTATTTATGCCAGCGATGACCTCTCTAACAAGGTGCAGAGCTTAGCTGATTGGTGAACAGTGATTGGT  
TTCCGCTTTGTTACAGTGGCTAAGTTCTGCACCTGAAGAGAAGGTGAGATGGGGACAGTTAAGTTGGAGCCGCT  
GGGGCAGAGGCCGTTGCTGACGGGCGCGCGCTGCTGCACAGTCAGCTTGGGTGCGGAGCGCGATCCTGGAGGAT  
GAGAGACCACTTGACCCCAAGGATGCACTGTCTCCTGCTGGGAATGCTAGCCATGTACTGAGTCTTAAAGTCTGT  
CCACAGAAACATGCACTAATCGGACATCTGTCTGAAAGGTCAAATGTATTGAAAGTTGCAAAAATCTTCTTACA  
AAAACTAAACCAATGCATCACCTAAGTCGTGTGAAATCATGTGGTAGCTCATGGCTGTGAGCGGGCGGGGC  
GGGGCTTTCGGAGGAGCTCCTGTGTCTGGGCGCGGTGAACCTCTCTTGTATTGTCAGTCCAGGCCCTCGCGT  
CTCCTGCGCCAGCAGACGGTGCCACGGAGCTCCAGCTGAGGCGCTGCTTCTCCGGGCTGTGATTGGACCCGC  
CCTCCGGTGCTACTGAGCTGATATCAGTTCTCATTTTACACACTGGCTCAGTTACAGGAACAGGAGTCGAGC  
CCTTGAGCAAAAAGCCTTCGTGTCTGTAAGTGCCGAGGCTCAGGAGAGCTGGGGCTCCCACTCGCGGCAGACAG  
GCGCGCTCCACCTGCGTCCACCCCGGCCGCGGCAGCAGGTGCCAGTCATCTGCATGTGCTCCTGCGGCGT  
GGGGGTTGTAGACTTGGAACCCCTGTTGGCAGAAAGTTAAGAGCTCCAGGCCCTGAAGGCAGGACACAGTGCC  
AGCAGGGGGCCGTTTGCCCCATGTGTAAGGGAGGCAGGGCCAGCTCTCCACGGCAGGTGAGCTGAGACTTT



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**FIGURE 2725B**

CTGAGAACAGTTAGAGTGGGTGCGTGTCTGAAATGGGTACTCCTAGCAGCTATTGTGTACGCAAAGCCTGAGTAC  
AGCCTGCTGGTGTGTCATGGCCACGTGTGAGCAGGCCAGCGTCACACGGCTCGCTGTGACCCGTCCCGGAGACTGAA  
ATGGGCCTGGGTCTTCTCCTTGTCTGTGATTAAAGTCCTCTCTTGAAAGTGGAGAGCAAAGGCACACAGAGGTG  
CGCGCTCACAAGAATTCCTCCCGGTGACTGGGTAATCAATGTTACTGCTGTTTCCTTTGCAGGAAAGACCACAGC  
AAGATTCTTTCATTTCGTCTCCTCCTAGCCTGGGGGACCAGGCTCGAACTGACCCTGGACATCAAAGGAGGGATTA  
TGTGGCTGCTAAAGCCATCGGCCACAGCCCTGTTACATCTTGGTGCTTCTCTTTCCAGAGGCTGGTCCCAGC  
CAGGCACACACAAAAGGCAGATTCTCGTAAACGCAGCCTCCCTCCCTGGAGGCTGCCTCCTGCCCTGGATCTGGA  
GTGGAGCTGCTCTGAGATTTTGAGTTCTTCTGCAGAGATGATTAAATATATCCAAGAGACATTGGAAAACCTGCT  
GAACATTTTACATTGGTCTGCTCAGCACATGGCTGGATGCGGATATTCTATAATTCCAGAAAGTCACACAGCTC  
CTCTGTATGAGACCAGTGGGCGCCATTTAAAAGAACAGGATGAGAATCTAAGATATATTATTAATAAATGTAATG  
GATTTTTTTTTTGT

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**FIGURE 2726**

GGCGGCCTCAGCAAAAAGAAGAAGAAGAAGGGGAAGACTATCTCCCTAACAGACTTTCTGGCTGAGGATGGGGG  
TACTGGTGGAGGAAGGACCTATGTTTCCAAACCAGTCAGCTGAGCTGATGAAACGGATGACCTGGAAGGAGATGT  
TTCGACAACCTGGCACAGTAACGATGACGATGTGTATAGGGCGTCTCCAATTGACCGTTCCATCCTTCCCCTGCT  
TCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCATCTTCCCAAATCGCCACCCTACACTGCTTTTCTAGG  
AAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTTCGAGGATTAAATATCAGTGCAGTGCCTTT  
ACCATGTGAACCCAGCAATCCAGTGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAGGACCTGGATTCCCTGCT  
TAGTGCCCTGAGTCTCAAGGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGACGTTGCTGATCAAGCACAGGA  
TAAAGACAGGGATGATTGTTCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGGTACAGACTGGAGGGC  
TCGTCCTGCTACAGACAGCTTTGATGACTACCCACCTAGAAGAGGTGATGATAGCTTTGGAGACAAGTATCGAGA  
TCGTTATGATTCAGACCGGTATCGGGATGGGTATCGGGATGGGTATCGGGATGGCCAACGCCGGGATATGGATCC  
ATATGGTGGCCGGGATCGCTATGATGACCGAGGCAGCAGAGACTATGATAGAGGCTATGATTCCCGGATAGGCAG  
TGGCAGAAGAGCATTGGCAGTGGGTATCGCAGGGATGATGTCTCAGAGGAGGCGGGGACCACTATGAAGACCGA  
TATGACAGACGGGATGATCGGTCTTGGAGCTCCAGAGATGATTACTCTCTGGATGATTATAGGCGTGATGGTAGA  
GGTCCCCCCCCAAAGACCCAAACTGAATCTAAACCCTCGGAGTACTCCTAAGGAAGATGATTCCCTCTGCTAGTACC  
TCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCCGTTGACACAGCTGCTAGAGAAAGAGAAGTA  
GAAGAACGGCTACAGAAGGAACAAGAGAAGTTGCAGCATCAGCTGGATGAGCCAAAACCTAGAACGACGGCCTCCG  
GAGAGACACCCAAGCTGGCGAAGTGAAGAACTCAGGAACGGGAACGGTCGAGGACAGGAAGTGAGTCATCACAG  
ACTGGGACCTCCACCACATCTGGCAGAAGTAAGTCAGCCCAGGATGCACGAAGGAGAGAGAATGAGAAGTCTCTA  
GAAATGAAACACTCAATAAGGAGGAAGATTGCCACTCTCCAACCTCTAAACCTCCCAAACCTGATCAGCCCCTA  
AAGGTAATGCCAGCCCCTCCACCAAAGGAGAATGCTTGGGTGAAGCGAAGTTCTAACCCTCCTGCTCGATCTCAG  
AGCTCAGACACAGAGCAGCAATCCCTTACAAGTGGTGAGGGAAAAGTAGCTCCAGCTCAACCATCTGAGGAAGGA  
CCAGCAAGGAAAGATGAAAACAAAGTAGATGGGATGAATGTCCCAAAGGCCAAACTGGGAACCTCTAGCCGTGGT  
CCAGGAGATGGAGGGAACAAAGACCACTGGAAGGAGTCAGATAGGAAAGATGGCAAAAAGGATCAAGACTCCAGA  
TCTGCACCTGAGCCAAAGAAACCTGAGGAAAATCCAGCTTCCAAGTTCAGTTCTGCAAGCAAGTATGCTGCTCTC  
TCTGTTGATGGTGAAGATGAAAATGAGGGAGAAGATTATGCCGAATAG

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**FIGURE 2727**

CCTTTGGGAAGCTGCCCCGCCGAGTCTCCGAGATTGTCCCTGGTGGTCCCGCGGACCCCTCGTCCCTCCGCAGTC  
TCCGGCTGGCAGCGATGGAGGGCGCTGGGGAGAACGCCCCGGAGTCCAGCTCCTCTGCCCCCTGGGTCCGAAGAGT  
CTGCCAGGGATCCACAGGTGCCGCTCCGGAGGAAGAATCGGGGGACTGCGCCCGGTCCCTGGAGCGGTCCCCA  
AGAAACTCTGTGGGTATTTAAGTAAGTTTCGGCGGCAAGGGGCCATCCGGGGCTGGAAATCCCGCTGGTTCTTCT  
ACGACGAAAGGAAATGTCAGCTGTATTACTCGCGGACCGCTCAGGATGCCAATCCCTTGGACAGCATCGACCTCT  
CCAGTGCAGTGTTTGAAGGCGGACGCTGAGGAGGGGATCTTCGAAATCAAGACTCCCAGCCGGGTATTATTA  
CCCTGAAGGCCGCCACCAAGCAAGCGATGCTGTACTGGCTGCAGCAGCTGCAGATGAAGCGCTGGGAATTCCACA  
ACAGCCCGCCGGCACCTCCTGCCACCCCTGATGCCGCTGGCTGGGAATGGGCCCCGTCTGCACCTCGAGCTAG  
GGCAAGAAGAGGCAGAGCTGGAGGAGTTCCCTGTGCCCTGTGAAAAACCCCCCTGGGCTAGTGGGCGTGGCAGCTG  
CCTTGCAGCCCTTCCCTGCCCTTCAGAATATTTCCCTCAAGCACCTGGGGACTGAAATACAGAACAATGCACA  
ACATCCGTGGCAACAAGCAGGCCAGGGAACAGGCCATGAACCTCCAGGGGAAGATTCTCCACAGAGTGGGGAGC  
CTCAGAGGGAGGAGCAGCCCTTGGCCTCTGACGCCAGCACCCAGGGAGAGAGCCAGAGGATTCTCCAAAGCCTG  
CACCCAAGCCTTCTCTGACCATCAGTTTCGCTCAGAAAGCCAAGCGCCAGAACAACACCTTCCCATTTCTTTCTG  
AAGGAATCACACGGAACCGAACTGCCCAGGAGAAAGTGGCAGCCTTGGAGCAACAGGTTCTGATGCTACCAAGG  
AGTTAAAGTCTCAGAAGGAGCTAGTGAAGATCTGCACAAGGCACCTGGAGGCCGCCAGCAGGAGAAGCGGGCGT  
CCAGCGCATACCTGGCGGGCGGTGAGGACAAGGACCGGCTGGAGCTGGTGCGGCACAAAGTGCGGCAGATCGCGG  
AGCTGGGCGCGCGGGTGGAGGCCCTGGAGCAGGAGCGGGAGAGCCTGGCGCACACAGCGAGCCTGCGGGAGCAGC  
AGGTGCAGGAGCTACAGCAGCACGTGCAGCTGCTTATGGACAAGAACCACGCCAAGCAGCAGGTCTCTGCAAGC  
TCTCTGAGAAGGTCACCCAGGACTTCACGCACCCCCCTGACCACTCTCCTTTGCGCCCCGACGCTGCCAACAGGG  
ACTTCTGAGCCAGCAGGGGAAGATAGAGCACCTGAAGGATGACATGGAAGCTTACCGGACCCAGAAGTCTTCC  
TCAACTCCGAGATCCACCAGGTCAAAAGATCTGGAGAAAGGTGGCTGAGAAGGAGAAGGCCCTTCTGACGAAGG  
TGCGCCTACCTCCAAGCCAGAACTGCCAGGTGGAAAGCAAGTACCTGGCCGGTCTGAGAAGGTGCAGGAGGCC  
CTGGGGGACGAAGCCAGCGAGTGCTCAGAGCTGCTGAGGCAGCTTGTCAGGAGGCACTGCAGTGGGAAGCTGGG  
GAGGCCTCATCTGACAGCATCGAGCTGAGCCCCATCAGTAAGTATGATGAGTACGGCTTCTGACGGTGCCCGAC  
TATGAGGTGGAAGACCTGAAGCTGCTGGCCAAGATCCAGGCATTGGAGTCACGATCCCACCACCTGCTGGGCCTC  
GAGGCTGTGGATCGGCCGCTGAGGGAGCGCTGGGCTGCCCTGGGCGATCTTGTGCCCTCAGCCGAGCTCAAGCAG  
CTACTGCGGGCAGGAGTACCCCGTGAACACCGGCCCTCGTGTCTGGAGGTGGCTGGTCCACCTCCGTGTCAGCAC  
CTGCACACTCCAGGCTGCTACCAGGAAGTCTGAGCCGGGGCCAGGCCCCGAGCACCTGCTGCCCGCCAGATT  
GAGCTGGACCTGAACCGGACCTTCCCCAACAAACAACTTACCTGCCCCACCTCCAGCTTCCCCGACAAGCTC  
CGCCGGGTGCTGCTGGCCTTCTCCTGGCAGAACCCACCATCGGCTACTGCCAGGGCTGAACAGGCTGGCGGCC  
ATTGCCCTGCTGGTCTAGAGGAGGAGAGCGCCTTCTGGTGCTGGTGGCCATTGTGGAGACCATCATGCCC  
GCTGATTACTACTGCAACACGCTGACGGCATCCAGGTGGACCAGCGGTGCTCCAGGACCTGCTCTCGGAGAAG  
CTGCCCAGGCTGATGGCCCATCTGGGGCAGCACACGTTGGATCTCTCCCTCGTCACCTTCAACTGGTTCTCGTG  
GTCTTTGCGGACAGTCTCATTAGCAACATCTCCTTCGGGTCTGGGATGCCTTCTGTACGAGGGGACGAAGTAC  
AACGAGAAGGAGATCTTGAGGCTACAGAATGGCCTGGAAATCTACCAGTACCTGCGCTTCTTACCAAGACCATC  
TCCAACAGCCGGAAGCTGATGAACATCGCCTTCAATGACATGAACCCCTTCCGCATGAAACAGCTGCGGCAGCTG  
CGCATGGTCCACCGGGAGCGGCTGGAGGCTGAGCTGCGGGAGCTGGAGCAGCTTAAGGCAGAGTACCTGGAGAGG  
CGGGCATCCCGGCGCAGAGCTGTGTCCGAGGGCTGTGCCAGCGAGGACGAGGTGGAGGGGAAGCCTGACTTGGC  
CACCTCCCCCTCCCCACAGCCTTCTCACCCTTGGCTGGCAGACCCACTGGAGGTCAGGCACGGACAGTGGCCCA  
GCCCTGGGTGTCCCATCACCATGTGACCTTGGACATGTCCCTTCCCTCTCTGGCCCTCAGTTTCCCCACTGGGA  
CATTGTGTGCTGCAAGCCATTGGTTGGGCTACTTCTCATAGGCACTTACTTACCCAGGGATGCCACCCCTTCG  
TCACCTCTTCCACAGACACTTTGGCATGTAAACAAGAGAGCACTGCCTCTATAGGGAACCTGGAACATTCT  
CTAGGTTATATCAATATAAAACAATGTAAATGGTGG

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**FIGURE 2728**

CACAGGGGCACTGACATCTTTGCTGGACTCTTTTAATCCTCATAAACCCAGGCTGCTGGCACTTGAAATTTGAGA  
AGGGCAATCAGTCTGGCCTCCTGCCTTTCTGGCCTGCAGGCCAGCCTGGACAAACAATTTAGGTGGAGCTCCTG  
GAGGCTGGAAGCAGAGAGGAGGTACCTCACCATCCTCTCCTGCCAGCTGTTGCAGACTCTGCCTGGGGAAGTAT  
TAAGGGTGAGCAGAGGCATTTATCTCCATGTTAAACAAGCAGATGTCATGGCACCCCAAGTACCGGAGCTCCAAGT  
TCCGTCAATGCTTTGGCAAACCCAGCCAGCAAGGAGAAGTCTACGACTCCGTGCCATACCCCGCAGCGTTACG  
ACAACCACTTCTGTGCCGTGAACCCCCACTTCATTGCAGTTGTGACTGAGTGTGCTGGTGGAGGGGCTTCCTCG  
TCATCCCCCTGCACCAGACAGGGAAGTTGGACCCCCACTACCCAAAAGTCTGCGGGCAGAGGGCAACGTTTTGG  
ATGTCAAGTGGAACCCTTTTGATGATTTTGAGATCGCCTCCTGTTCTGAAGATGCCACAATTAAGATCTGGAGCA  
TCCCCAAGCAGCTGCTGACCAGGAACCTCACGGCTACAGGAAGGAAGTCTGTTGGGCCACGCGCGCAGAGTAGGCC  
TGGTGGAGTGGCACCCACGGCCGCCAACATCCTCTCAGTGTGCTGGCTATGACTACAAGGTGATGATCTGGAACC  
TGGATACAAAGAGTCTGTATCACAAGCCCCATGAGTACGATTAGCTGTCAACAAGATGTGATCCTCTCCATGT  
CCTTCAACACCAACGGCAGCCTGTTGGCCACCACCTGCAAAGACCGCAAGATTCGGGTTATTGACCCCCGAGCAG  
GGACCGTCTCCAGGAGGCCAGCTACAAAGGGCACCGGGCCAGCAAAGTGTGTTTCTGGGGAACCTGAAGAAGC  
TGATGTCCACAGGCACATCCCGATGGAACAACCGGCAGGTGGCCTTGTTGGGACCAGGATAACCTCTCTGTGCCCTC  
TGATGGAGGAGGACCTGGACGGCTCCTCGGGCGTGTGTTTCCCTTCTATGACGCGGACACCAGCATGTCTACG  
TGGTGGGGAAGGGAGATGGCAACATCCGCTACTACGAGGTGAGCGCCGACAAGCCTCACCTGAGCTACCTGACTG  
AGTACCGCTCCTATAACCCACAGAAGGGGATCGGTGTATGCCAAAGAGAGGAAGTCTGACGTGTCTCTCGCGAGA  
TCTTCGGCTTCTACAAGCTGATCACAACCAAAAGCCTCATCGAGCCCATCTCCATGATTGTGCCCGGCAGTCAG  
AATCCTACCAAGAGGACATATACCTCCAACAGCAGGGGCCAGCCCTCCCTGACGGCCAGGAGTGGCTCAGCG  
GGATGAATCGAGACCCAATCCTGGTGTCCCTTAGGCCTGGCTCTGAGCTGCTGAGACCCCAACCACTGCCTGCAG  
AGAGACCTATCTTCAATTCCATGGCCCCAGCCTCACCCCGGCTCTTGAATCAGACAGAAAAGCTGGCTGCAGAAG  
ATGGCTGGAGGTCTTCTCCCTGTTGGAGGAGAAGATGCCAAGGTGGGCAGCAGAACACAGGCTGGAGGAGAAGA  
AAACCTGGCTGACAAATGGCTTTGACGTTTTTCGAATGCCCCCACCAAAAGACAGAGAATGAGTTGCTGCAGATGT  
TCTACCGCAACAGGAGGAGATCCGAAGGCTCCGGGAGCTGTTGACCCAGCGAGAGGTCCAGGCCAAACAGTTGG  
AACTGGAGATCAAAAACCTTGCGGATGGGCTCAGAGCAGCTCTGAGCAGAGACCTCTGCCCTCCTCACCTCAGGG  
ACACCACTCGGCTCCATGGGAGGTTTAGAACCAAAACCACAAGTCCCTCAAGGACAACCACTATTTCTATATTT  
TTTACCAGAAAACAAAACCTCTCCATCGCTGAAAGAGATTCCAGTGGGACATGGTGGCGTTTTTCTGTTTGCCTTC  
TTGCAACAACAGTTTCTGAATTGACTTTGTTTTTCAGATGATGCCTTCTGTTGAATTCTGTTATTAAGGGCCCATG  
ATGAGCTGTAACTTCTCAAGAGGAAAGAACACAGTAGAAAACCTAGAGCTGGAAGGATCTAGGTTGACCTGTCTGT  
GATTTTCAAACCTGTGGTCCAGAGAATAGGGGAAGACTGGGCCAGACGCAGTGGCTCATGCCTGTAATCCCAGCAC  
TCTGGGAGGCTGAGGTGGGCGGATTGCTTGAGGTCCGGGAGTTTGAAACAGTCTCACCAAGGCGCAGTGGCTCACG  
CCTGTAATTCAGCATGTTGGGAGGCCGAGGCTGGTGGATCACGAGGTGAGCAGTTTCGAGACCAGCTGACCAAC  
ATGGTGAAACCCCATCTCTACTAAAAA

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**FIGURE 2729**

MSWHPQYRSSKFRHVFGKPASKENCYDSVPITRSVHDNHFCAVNPHFIAVVTECAGGGAFIVIPLHQTGKLDPHY  
PKVCGHRGNVLDVKWNPFDDEIASCEDATIKIWSIPKQLLTRNLTAIRKELVGHARRVGLVEWHPTAANILFS  
AGYDYKVMIWNLDTKESVITSPMSTISCHQDVILSMSFNINGSLLATTCKDRKIRVIDPRAGTVLQEASYKGHRA  
SKVFLGLNLKKLMSTGTSRWNNRQVALWDQDNLSVPLMEEDLDGSSGVLFPPFYDADTSMLYVVGKGDGNIRYYEV  
SADKPHLSYLTEYRSYNPQKGIGVMPKRGLDVSSCEIFRFYKLITTKSLIEPISMIVPRQSESYQEDIYPPTAGA  
QPSLTAQEWLSGMNRDPILVSLRPGSELLRPHPLPAERP IFNSMAPASPRLLNQTEKLAAEDGWRSSSLLEEKMP  
RWAAEHRLEEKKTWLTNGFDVFECPPPKTENELLQMFYRQEEIRRLRELLTQREVQAKQLELEIKNLRMGSEQL

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**FIGURE 2730**

GTGGAGATGAATGGCGGGCGCGGCGACCGGGAGCCGGACCCCTGGGAGGTTCGGAGCTTGTTCGAGGGATGCGGCTG  
GCGCTGCCCCGGAGCATGGCGACCGCGTGGCTGAGCTCTTCTGTGCGCCGCTGCCGCCGCTGCGTGTGCGCGCTTTG  
CCCGGTGCTGGGCGCGCACCGTGGCCACCCTGTGGGCCTGGCGCTGGAGGCAGCGGTGCACGTGCAGAAACTCAG  
CCAAGAATGTTTAAAGCAGCTGGCAATCAAGAAGCAGCAGCACATTGACAACATAACCCAGATAGAAGATGCCAC  
CGAGAAGCTCAAGGCTAATGCAGAGTCAAGTAAAACCTGGCTGAAGGGGAAATCACTGAACCTCAGATTACTACT  
TGACGAAGAGGAAGCGCTGGCCAAGAAATTCATTGATAAAAACACGCAGCTTACCCTCCAGGTGTACAGGGAACA  
AGCTGACTCTTGAGAGAGCAACTTGACATCATGAATGATCTCTCCAACAGGGTCTGGAGTATCAGCCAGGAGCC  
CGATCCTGTCCAGAGGCTTCAGGCATACACGGCCACCGAGCAGGAGATGCAGCAGCAGATGAGCCTCGGGGAGCT  
GTGCCATCCCGTGCCCTCTCTTTTGAGCCCGTCAAGAGCTTCTTTAAGGGCCTCGTGGAAGCCGTGGAGAGTAC  
ATTACAGACGCCATTGGACATTGCGCTTAAGGAAAGCATAAACTGCCAGCTCTCAGACCCCTCCAGCACCAAGCC  
AGGTACCTTGTTGAAAACAGCCCCTCACCAGAGCGATCGCTATTGCTGAAATACGCGCGCACGCCACGCTGGA  
TCCTGACACGATGCACGCGCGCTGCGCCTGTCCGCCGATCGCCTGACGGTGCCTGCGGCCTGTGGGCAGCCT  
GGGGCCCCTGCCCCTGCTGCGGTTGACGCGCTCTGGCAAGTGTGGCTCGTGACTGCTTCGCCACCGGCCGCCA  
CTACTGGGAGGTTGACGTGCAGGAGGCGGGCGCCGGCTGGTGGGTGGGCGCGGCCTACGCCTCCCTTCGGCGCCG  
CGGGGCCCTCGCCCGCCGCCCGCTGGGCTGCAACCGCCAGTCTGGTGCCTCAAGCGCTACGACCTTGAGTACTG  
GGCCTTCCACGACGGCCAGCGCAGCCGCTGCGGCCCGCGACGACCTCGACCGGCTCGGCGTCTTCCTGGACTA  
CGAGGCCGGCGTCTCTCGCCTTCTACGACGTGACGGGCGGCATGAGCCACCTGCATACCTTCGCGCCACGTTCCA  
GGAGCCGCTCTACCCGGCCCTGCGGCTCTGGGAGGGGGCCATCAGCATCCCCGGCTGCCCCTAGGGGCCAGGACC  
GGCGTGACAGCTCCAGACTTGAATCTGTAGACATTTCTTTATTGATATGGCAAATTGCTTGAGATATTTTTAA  
ATGACAGCAATTTTCTAATATTTGGTTTAATAAAATGTGAATAATGTCCCTTTT

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**FIGURE 2731**

MAGAAATGSRTTPGRSELVEGCGWRCPEHGDRVAELFCRRRCRCVCALCPVLGAHRGHPVGLALEAAVHVQKLSQEC  
LKQLAIKKQQHIDNITQIEDATEKLNANAESSKTWLKGKFTELRLLLDDEEEALAKKFIDKNTQLTLQVYREQADS  
CREQLDIMNDLSNRVWSISQEPDPVQRLQAYTATEQEMQQQMSLGELCHPVPLSFEPVKSFFKGLVEAVESTLQT  
PLDIRLKESINCQLSDPSSSTKPGTLLKTSPSPERSLLLKYARTPTLDPDTMHARLRLSADRLTVRCGLLGSLGPV  
PVLRFDALWQVLARDCFATGRHYWEVDVQEAGAGWWVGAAYASLRRRGASAAARLGCNRQSWCLKRYDLEYWAFH  
DGQRSRLRPRDDLRLGVFLDYEAGVLAFYDVTGGMSHLHTFRATFQEPLYPALRLWEGAI SIPRLP

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**FIGURE 2732**

GTGACGCGGCCGCGCTCCGCTCCCGTGAGTAACTTGGCTCCGGGGGCTCCGCTCGCCTGCCCCACGCCGCCCG  
CCACCCAGGACCGCGCCCGCGCCTCCGCCGTAGCAAACCTTCCGACGGCCCTCGCTGCGCAAGCCGGGACGC  
CTCTCCCCCTCCGCCCCCGCGGAAAGTTAAGTTTGAAGAGGGGGGAAGAGGGGAACATGGACATGAAGAGG  
AGGATCCACCTGGAGCTGAGGAACCGGACCCCGCAGCTGTTGAGAACTTGTCTTGGACAATTGCAAATCAAAT  
GATGGAAAAATTGAGGGCTTAACAGCTGAATTTGTGAACCTAGAGTTCCTCAGTTAATAAATGTAGGCTTGATC  
TCAGTTTCAAATCTCCCCAAGCTGCCTAAATTGAAAAGCTTGAACTCAGTGAAAATAGAATCTTGGAGGTCTG  
GACATGTTAGCTGAAAACTTCAAATCTCACACATCTAACTTAAGTGGAAATAAACTGAAAGATATCAGCACC  
TTGGAACCTTTGAAAAAGTTAGAATGTCTGAAAAGCCTGGACCTCTTAACTGTGAGGTTACCAACCTGAATGAC  
TACCGAGAGAGTGTCTTCAAGCTCCTGCCCCAGCTTACCTACTTGGATGGCTATGACCGAGAGGACCAGGAAGCA  
CCTGACTCAGATGCCGAGGTGGATGGTGTGGATGAAGAGGAGGAGGACGAAGAAGGAGAAGATGAGGAAGACGAG  
GACGATGAGGATGGTGAAGAAGAGGAGTTTGATGAAGAAGATGATGAAGATGAAGATGTAGAAGGGGATGAGGAC  
GACGATGAAGTCAGTGAGGAGGAAGAAGAATTTGCACTTGATGAAGAAGATGAAGATGAGGATGAGGATGAAGAG  
GAGGAAGAAGGTGGGAAAGGTGAAAAGAGGAAGAGAGAAACAGATGATGAAGGAGAAGATGATTAAGACCCCGAGA  
TGACCTGCAGAAACAGAACTGTTCACTATTGGTTGGACTGCTCATGGATTTTGTAGCTGTTTAAAAAAAAAAAAA  
AGGTAGCTGTGATACAAACCCAGGACACCCACCCACCCAAAGAGCCAAAGAATAGTTCTGTGACATTCCGCCT  
TCCTTCCATGTAGTCCCTCTTGGTAATCTACCACCAAGCTTGIGGACTTCACCCCAACAAAATTGTAAGCGTTGT  
TAGGTTTTTTGTGAAGATTCTTGCTGTAGCGTGGATAGCTGTGATTGGTGAGTCAACCGTCTGTGGCTACCAATT  
ACACTGAGATTGTAACAGCATTTTTACTTTCTGTACAACAAAAAGCTTTGTAAATAAAATCTTAACATTTTGGG  
TCTGTTTTTTCATGCTTTGCTTTTTAATTATTATTATTTTTTTTACATTAGGACATTTTATGTGACAACTGC  
CAAAAAAGTATTTTTAAGAATTTAAGCGAAATAAACAGTTACTCTTTGGC



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**FIGURE 2733**

MDMKRRIHLELRNRTPAAVRELVLDNCKSNDGKIEGLTAEFVNLEFLSLINVGLISVSNLPKLPKLKKLELSENR  
IFGGLDMLAEKLPNLTHLNLSGNKLDISTLEPLKKLECLKSIDLFNCEVTNLNDYRESVFKLLPOLTYLDGYDR  
EDQEAPDSDAEVDGVDEEEDEEGEDEDEDEDGEEEFDEEDDEDEDVEGDEDDDEVSEEEEFGLDEEDEDE  
DEDEEEEGGKGEKRKRETDDEGEDD

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**FIGURE 2734**

CCTCGGTTCCGCGGCGCACCGGAGGGCAGCATGTGCGGCGGCGGCACAGCGACGAGAACGACGGTGGGCAGCCT  
CACAAAAGGAGAAAGACCTCTGATGCAAATGAACTGAAGATCATTTGGAATCTTTAATATGTAAAGTAGGAGAA  
AAGAGTGCCTGCTCTTTGGAGAGCAACCTAGAAGGCTTGGCTGGTGTGTTTGGAGCTGATCTTCTAACTACAAG  
AGCAAGATCTTAAGGCTTCTTTGTACAGTTGCACGCCTATTACCTGAGAAGCTGACAATTTATACAACATTAGTT  
GGACTACTGAATGCCAGGAATTACAATTTTGGTGGAGAATTTGTAGAAGCCATGATTTCGTCAACTTAAAGAATCA  
TTGAAAGCAAACAATTATAATGAAGCCGTGTATTTGGTCCGTTTTTATCTGATCTTGTGAATTGTCATGTGATT  
GCCGCCCCATCAATGGTTGCTATGTTTGAAAATTTTGTAAAGCGTAACTCAGGAAGAAGATGTACCTCAGGTGCGA  
CGAGATTGGTATGTGTATGCATTTCTGTTCATCTTTGCCCTGGGTTGGAAAGGAGTTGTACGAAAAGAAAGATGCA  
GAGATGGACCGCATCTTTGCCAACACTGAAAGCTATCTTAAAAGACGCCAAAAGACTCATGTACCCATGTTACAG  
GTATGGACTGCTGATAAACCACATCCACAAGAAGAGTATTTAGATTGCCTGTGGGCCAGATTTCAGAAATTGAAA  
AAGGATCGCTGGCAGGAACGGCACATCCTAAGACCTTATCTTGCCCTTGACAGCATCCTGTGTGAAGCACTGCAG  
CACAATCTGCCTCCTTTTACACCACCTCCTCACACTGAAGATTAGTGTACCCAATGCCAAGGGTCATCTTCAGA  
ATGTTTGATTACACAGATGATCCCGAGGGTCTGTCTATGCCAGGGAGTCATTTCAGTGGAAAGATTGTAAATAGAA  
GAGAATCTTCACTGCATCATTAAAGTCCCACTGGAAGGAAAGGAAGACTTGTGCTGCACAGTTAGTGAGCTATCCA  
GGGAAGAACAAGATCCCCCTTGAACCTACCACATAGTTGAGGTGATCTTTGCAGAGCTGTTTCAACTTCCAGCACCC  
CCTCACATTGATGTGATGTACACAACACTCCTCATTGAAGTGTGCAAACTTCAACCTGGCTCTCTACCCCAAGTT  
CTTGACAGGCAACTGAAATGCTATACATGCGTTTGGACACAATGAACACTACCTGTGTAGACAGGTTTATTAAAT  
TGGTTTTCTCATCACTAAGTAACTTCCAGTTCCGTTGGAGCTGGGAAGATTGGTCAGATTGTCTTAGTCAAGAT  
CCTGAAAGTCCCAAACCGAAGTTTGTAAGAGAAGTTCTAGAAAAATGTATGAGGTTGTCTTACCATCAGCGTATA  
TTAGATATTGTTCTCTACCTTCTCAGCTCTGTGCTCTGCAAAACCAACCTGCATTTACAAGTATGGAGATGAA  
AGTAGCAATCTCTTCTGGACATTCTGTTGCCCTCTGTTTAGCTGTTGCCTTTAAAAGTAAGGCAACCAATGAT  
GAAATCTTCAGCATTCTGAAAGATGTACCAAATCCTAACAGGATGATGACGACGATGAAGGATTTCAGTTTAAAC  
CCATTGAAAATAGAAGTCTTTGTACAGACTCTGTACACTTGGCAGCCAAATCATTTCAGCCACTCCTTCAGTGCT  
CTTGCAAAGTTTCATGAAGTCTTCAAAACCTAGCTGAAAGTGTGAAGGAAAGTTACATGTGCTAAGAGTTATG  
TTTGAGGTCTGGAGGAACCATCCACAGATGATTGCTGTACTAGTGGATAAGATGATTTCGTACACAAATAGTTGAT  
TGTGCTGCCGTAGCAAATTGGATCTTCTCTTCAGAACTATCTCGTGACTTTACCAGATTGTTTGTGTTGGGAAATT  
TTGCACTCTACAATTTCGTAAGATGAACAAACATGTCTGAAGATCCAGAAAGAGCTGGAAGAAGCTAAAGAGAAA  
CTTGCTAGGCAACACAAACGGCGAAGTGATGATGACGACAGAAGCAGTGACAGGAAAGACGGGGTTCTTGAGGAA  
CAAATAGAACGACTTCAGGAAAAAGTGGAATCTGCTCAGAGTGAACAAAAGAATCTTTTCTCGTTATATTTTCAG  
CGGTTTATCATGATCTTGACCGAGCACCTAGTACGATGCGAACTGATGGGACCAGTGATTAACACCATGGTAT  
AAGAACTGTATAGAGAGGCTGCAGCAGATCTTCTACAGCATCACCATAATCCAGCAGTACATGGTGACCCTG  
GAGAACCTTCTCTTCACTGCTGAATTAGACCCTCATATCTTGCCCGTGTTCCAGCAGTTCTGTGCCCTGCAGGCC  
TAAGGGTCAATTTTTCTCATGTCAAGGTTTTTTTTGATATCTTAAATAAATTGTCTTATTTTTTGATGGTTTG  
AATGCTTGCTTTCTTGTAGTATCCTTTCACTTCTTAAAGGAAACAAAGGGGAAGAGGACAGTGAATGAACATGGC  
ATTACTTTTAAATTGCCCTGAAAAGCAAATACTTCTAACGGCAGTAATGTGACTATGACCATGATATATTATATA  
TGTGACAGATACAAATCTCTGTGATCAGTTTGTATTTTTTTCTCCTTAAGGCAACAAAATAATTGGTTTGAG  
GTATGTGAAACACTAGAGGTCAACCTTACATAGTATATAGAAGTATGGGTTTACCCAGCTACCCAGTAGCATAA  
CTTTTCACAGCTCGGGGATGAATTAACATGGCTGAAATAAACTAAAAGTATG

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**FIGURE 2735**

MSRRRHS DENDGGQPHKRRKTS DANETEDHLES LICKVGEKSACSLESNLEGLAGVLEADLPNYKSKILRLLCTV  
ARLLPEKLTIIYTTLVGLLNARNYNFGGEFVEAMIRQLKESLKANNYNEAVYLVRFSLDLVNCHVIAAPSMVAMFE  
NFVSVTQEEDVPQVRDWDYVYAFSLSPWVGKELYEKKDAEMDRIFANTESYLKRRQKTHVPMQLQVWTADKPHPQ  
EEYLDCLWAQIQKLLKDRWQERHILRPYLA FDSILCEALQHNLPPFTPPPHTEDSVYPMPRVIFRMFDYTDDEP  
PVMPGSHSVERFVIEENLHCIIKSHWKERKTCAAQLVSYPGKNKIPLNYHIVEVIFAELEFQLPAPPHIDVMYTTL  
LIELCKLQPGSLPQVLAQATEMLYMRD TMNTTCVDRFINWFSHLSNFQFRWSWEDWSDCLSQDPESP KPFVR  
EVLEKCMRLSYHQRILDIVPPTFSALCPANPTCIYKYGESSNSLPGHSVALCLAVAFKSKATNDEIFSILKDVP  
NPNQDDDDDEGFSFNPLKIEVFVQTLHLA AKSFHSFSALAKFHEVF KTLAESDEGKLHVL RVMFEVWRNHPQM  
IAVLVDKMIRTQIVDCAAVANWIFSS ELSRDFTRLFVWEILHSTIRKMNKHLKIQKELEEAKEKLARQHKRRSD  
DDDRSSDRKDG VLEE QIERLQEKVESAQSEQKNLFLVIFQRFIMILTEHLVRCETDGT SVLTPWYKNCIERLQOI  
FLQHHQIIQQYMTLENLLFTAELDPHILAVFQQFCALQA

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**FIGURE 2736**

CGGCTGTAATCTCAGAGGCTTGTTTGCTGAGGGTGCCTGCGCACGTGCGACGGCTGCTGGTTTTGAAACATGAAT  
CTTTCGCTCGTCCTGGCTGCCTTTTGCTTGGAATAGCCTCCGCTGTTCCAAAATTTGACCAAAATTTGGATACA  
AAGTGGTACCAGTGAAGGCAACACACAGAAGATTATATGGCGCAATGAAGAAGGATGGAGGAGAGCAGTGTGG  
GAAAAGAATATGAAAATGATTGAAGTGCACAATGGGGAATACAGCCAAGGAAACATGGCTTCACAATGGCCATG  
AATGCTTTTCCTGACATGACCAATGAAGAATTCAGGCAGATGATGGGTTGCTTTCGAAACCAGAAATTCAGGAAG  
GGGAAAGTGTTCCTGAGCCTCTGTTTCTTGATCTTCCCAAATCTGTGGATTGGAGAAAGAAAGGCTACGTGACG  
CCAGTGAAGAATCAGAAACAGTGTGGTTCTTGTTGGGCTTTTAGTGCAGCTGGTGCTCTTGAAGGACAGATGTTT  
CGGAAAACCTGGGAACTTGCTCTACTGAGCGAGCAGAATCTGGTGGACTGTTTCGCGTCCTCAAGGCAATCAGGGC  
TGCAATGGTGGCTTCATGGCTAGGGCCTTCCAGTATGTCAAGGAGAACGGAGGCCTGGACTCTGAGGAATCCTAT  
CCATATGTAGCAGTGGATGAAATCTGTAAGTACAGACCTGAGAATTCTGTTGCTAATGACACTGGCTTCACAGTG  
GTCGCACCTGGAAAGGAGAAGGCCCTGATGAAAGCAGTCGCAACTGTGGGGCCCATCTCCGTTGCTATGGATGCA  
GGCCATTTCCTCCTTCCAGTTCTACAAATCAGGCATTTATTTTGAACCAGACTGCAGCAGCAAAAACCTGGATCAT  
GGTGTTCCTGGTGGTTGGCTACGGCTTTGAAGGAGCAAATTCGAATAACAGCAAGTATTGGCTCGTCAAAAACAGC  
TGGGGTCCAGAATGGGGCTCGAATGGCTATGTAAAAATAGCCAAAGACAAGAACAACCACTGTGGAATCGCCACA  
GCAGCCAGCTACCCCAATGTGTGAGCTGATGGATGGTGAGGAGGAAGGACTTAAGGACAGCATGTCTGGGGAAT  
TTTATCTTGAACTGACCAAACGCTTATTGTGTAAGATAAACAGTTGAATCATTGAGGATCCAAGTTGAGATTT  
TAATTCGTGACATTTTACAAGGGTAAAATGTTACCACACTTTTAATTATTGTTATACACAGCTTTATGATATC  
AAAGACTCATTGCTTAATTCTAAGACTTTTGAATTTTCATTTTTTAAAAAGATGTACAAAACAGTTT

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**FIGURE 2737**

MNLSLVLA AFCLGIASAVPKFDQNLDTKWYQWKATHRRLYGANEEGWRRRAVWEKNMKMIELHNGEYSQGKHGFTM  
AMNAFPDMTNEEFRQMMGCFRNQKFRKGKVFREPLFLDLPKSVDWRKKGYVTPVKNQKQCGSCWAFSATGALEGQ  
MFRKTGKLVSLSEQNLVDCSRPQGNQGCNGGF MARAFQYVKENGGLDSEESYPYVAVDEICKYRPENSVANDTGF  
TVVAPGKEKALMKAVATVGPISVAMDAGHSSFQFYKSGIYFEPDCSSKNLDHGVLVVGYGFE GANSNN SKYWLVK  
NSWGPEWGSNGYVKIAKDKNHCGIATAASYPNV

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**FIGURE 2738**

ATGAAGATCAAGATCGTGACAGGCAGTGGCGCGAGGCTTGAGTTGGGAAACCAGTTCTCCCACTTCATTAATAAT  
GATGTCGATGTTCCCTGGCAGTGTTTATAACCAAATGCTACTTTGACCTTTGCGCCTTGGCACACGACAGTAGCCTA  
TATTTGCCATTTTGTCTTCTTGACATAGAAAGAGCATGGGAAGTGAAGGTAATAAAGCTGGAATTTATGCAGCTC  
TTTCGGTCTCCACAGCTCGGGGTCTTGCCACAGACACAGCGCCACGAGTTCTGGCACTTTGGTCAACGTTTATA  
AACGGGCTCTCTCTGCCGCCGCGGGCATGCGCTTTCCCAAGACTCTGAGGCCACTTTTGCTCTCAGAGGCACA  
CAGAAGAGACATCGGGCGCATGGCAAGCGGCAGCTGAAGATGATGAGGATGATGATGTCGATACCAAGAAGCAG  
AAGACCGACAAGGATGACTAG

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**FIGURE 2739**

MKIKIVTGSGARLELGNQFSHFINNDVDVPGSVYTKCYFDLCALAHDSLYLFFCLLDIERAWELKVIKLEFMQL  
FRSPQLGVLPQTQRPRVLALWSTFINGLSSAAAGMRFPQDSEATFALRGTQKRHRAHGKRAAEDDEDDVDTKKQ  
KTDKDD

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**FIGURE 2740**

GCCAGCTGCCGGTCTTTCGGGGGCTCCGTAACTTTCTATCCGTCCGCGTCAGCGCCTTGCCACCCTCATCTCCAA  
TATGCCTGGTCCGACCCCAAGTGGCACTAACGTGGGATCCTCAGGGCGCTCTCCCAGCAAAGCAGTGGCCGCCCG  
GGCGGCGGGATCCACTGTCCGGCAGAGGAAAAATGCCAGCTGTGGGACAAGGAGTGCAGGCCGCACAACCTCGGC  
AGGCACCGGGGGATGTGGCGATTCTACACAGAAGATTCACCTGGGCTCAAAGTTGGCCCTGTTCCAGTATTGGT  
TATGAGTCTTCTGTTTCATCGCTTCTGTATTTATGTTGCACATTTGGGGCAAGTACACTCGTTCGTAGATTCAGTT  
ACATCCATCTGTCATCTGAAGAAGGAGGAAAAAACCAACATTTCTTGGACCAAAGTATAGTGACTATCTGTTT  
ATGAGAGAAATTTTCTGTAAGCTTGCTGTTTTACAGGGGATTTATCAATAATTGATTTTGAGGAATCAGTTTTT  
TCTATGGCTAATAAACTTTTTAATTCATTATACTGAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 2741**

MPGPTPSGTNVGSSGRSPSKAVAARAAGSTVRQRKNASCGRSAGRITSAGTGGMWRFYTEDSPGLKVGPPVPLV  
MSLLFIASVFMLHIWGYTRS

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**FIGURE 2742**

ATGTCTACTCCTTCTGGAATATCCACCTGGCTCAGCCTGCCTGTTTCGACTCCTGCCTCCATCACATCCATCAGA  
GTGACCCAGAAGTCCTCTGGCCCTTGGGCCCTTCAGCAGCTGCACCTACGTGAGTGGGCCTGGCGTCTGCATCAGC  
TCCTTGAGCTGCTCCCGAGTGGGGAGCAGCAGCTTTCGGGGTGGCCTGGGTGGAGGCTATGGTGGGGCCAGTGGC  
ATGGGAGGCATCATCGCCATCATGGTCAACCAGAGCCTGTTGAGCCCCCTTAACCTGGAGGTGGACCCCAACATC  
CAGGCCGTGTGTACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCCCTCCTTCATCGACAAGGTA  
TGGTTCTTGGAGCAGCAGAACAAGGTGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATGGCTCGGAGT  
AACATGGACAACATGTTGGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAGGAGAAGCTG  
AAGCTGGAAGCAGAGCTTGGCAACATGCAGGGGCTGGGGGAGGACTTCAAGAACAAGTATGAGGATGAGATCAAT  
AAGCATACGGAGGTGGAGAATGAATTTGTCCTCATCAAGAAGGATGTTGATGAAGCTTACATGAACAAGGCAGAA  
CTGGAGTCCCTCCTGGAAGGGCTGACTGACGAGATCAACTTCCTCAGGCAGCTGTATGAAGAGGAGATCCGGGAG  
CTGCAGTCCCAGATCTCCGACATGTCTATGGTGCTGTCCATGGACTACAGCTGCTCTCGGGACATGGACAGCATC  
ATCCCTGAGGTCAAGGTGCAGTATGAGGAGATTGCCAACTGCAGCCGGGCTGAGGCTGAGAGCATGTACCAGATC  
AAGTATGAGGAGCTGCAGACGCTGGCTGGGAAGTACGGGGATGACCTAAGCCGCACAAAGACTGAGATCTCCGAG  
ATGAACCGGAACATCAGCTGGCTCCAGGCTGAGACCGAGGGCCTCAAAGGCCAGAGGGCTTCCCTGGAGGCCGCC  
ATCACAGATGCCGAGCAGCGTGGGGAGCTGGCTGTAAAGGATGCCAACGCCAAGCTGTCCGAGCTGGAGGCCGCC  
CTGCAGCGGGCCAAGCAGGACATGATGGGGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTCGGGCTTACCCTG  
GACATCGAGATTGCCACCTACAGGAAGCTGCTGGAGGGCGAGGAGAGCCGGCTGGAATCTGGGATGCAGAACGTG  
AGTATCCATACGAAGACCACCAGCAGCTATGCAGGTGGGCTGAGCTCGGCCTATGGGGGCCTACAAGCCCCGGC  
ATCATCTACCGCCTGGGCTCCAGCTTTGGCTCTGCCGCGGGCTCCAGCTCCTTCAGCCGCACCAGCTCCACCAGG  
GCCGTGGTTGTGAGGAAGATCGAGACCCATGATGGCAAGCTGGAGTCCGAGTCCTCTGACGTCCTGTCCAAGTGA

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**FIGURE 2743**

MSTPSGISTWLSLPVSTPASITSIRVTQKSSGPWAFSSCTYVSGPGVCISLSCSRVGSSSFRRGGLGGGYGGASG  
MGGIIAIMVNQSLLSPLNLEVDPNIQAVCTQEKEQIKTLNNKFASFIDKVWFLEQQNKVLETKWSLLQQQKMARS  
NMDNMLESYINNLRQLETLGQEKLEAELGNMQGLGEDFKNKYEDEINKHTEVENEFVLIKKDVDEAYMNKAE  
LESLLLEGLTDEINFLRQLYEEEIRELQSQISDMSMVLSDYSCSRDMDSIPEVKVQYEEIANCSRAEAESMYQI  
KYEELQTLAGKYGDDLSRTKTEISEMNRNISWLQAETGLKGQRASLEAAITDAEQRGELAVKDANAKLSELEAA  
LQRAKQDMMGQLREYQELMNVLTLTDIEIATYRKLEGEESRLESGMQNVSIHTKTTSSYAGGLSSAYGGLTSPG  
IIYRLGSSFGSAAGSSSFRTSSSTRAVVVRKIETHDGKLESESSDVLSK

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**FIGURE 2744**

AAAAACATGATGAGAAGTCTATAAAAATTGTGTGCTACCAAAGATCTGTCTTATTTGGCAGCTGCTGCCTCACCC  
ACAGCTTTTGATATCTAGGAGGACTCTTCTCTCCCAAACCTACCTGTCACCATGCCCCACCGATTTCCAGCCCTCA  
CCCAGGAGCAGAAGAAGGAGCTCTCAGAAATTGCCAGAGCATTGTTGCCAATGGAAAGGGGATCCTGGCTGCAG  
ATGAATCTGTAGGTACCATGGGGAACCGCTGCAGAGGATCAAGGTGGAAAACACTGAAGAGAACCGCCGGCAGT  
TCCGAGAAATCCTCTTCTCTGTGGACAGTTCCATCAACCAGAGCATCGGGGGTGTGATCCTTTCCACGAGACCC  
TCTACCAGAAGGACAGCCAGGGAAGCTGTTCAGAAACATCCTCAAGGAAAAGGGGATCGTGGTGGGAATCAAGT  
TAGACCAAGGAGGTGCTCCTCTTGCAGGAACAAACAAAGAAACCACCATTCAAGGGCTTGATGGCCTCTCAGAGC  
GCTGTGCTCAGTACAAGAAAGATGGTGTGACTTTGGGAAGTGGCGTGCTGTGCTGAGGATTGCCACCAGTGTG  
CATCCAGCCTCGCTATCCAGGAAAACGCCAACGCCCTGGCTCGCTACGCCAGCATCTGTGAGCAGAAATGGACTGG  
TACCTATTGTTGAACCAGAGGTAATTCCTGATGGAGACCATGACCTGGAACACTGCCAGTATGTTACTGAGAAGG  
TCCTGGCTGCTGTCTACAAGGCCCTGAATGACCATCATGTTTACCTGGAGGGCACCTGCTAAAGCCCAACATGG  
TGACTGCTGGACATGCCTGCACCAAGAAGTATACTCCAGAACAAGTAGCTATGGCCACCGTAACAGCTCTCCACC  
GTACTGTTCTGCTGAGCTGTTCTGGCATCTGCTTTTTGTCTGGTGGCATGAGTGAAGAGGATGCCACTCTCAACC  
TCAATGCTATCAACCTTTGCCCTCTACCAAAGCCCTGGAAACTAAGTTTCTCTTATGGACGGGCCCTGCAGGCCA  
GTGCACTGGCTGCCTGGGGTGGCAAGGCTGCAACAAGGAGGCAACCCAGGAGGCTTTTATGAAGCGGGCCATGG  
CTAACTGCCAGGCGGCCAAAGGACAGTATGTTACACGGGTTCTTCTGGGGCTGCTTCCACCCAGTCGCTCTTCA  
CAGCCTGCTATACCTACTAGGGTCCAATGCCCGCCAGCCTAGCTCCAGTGCTTCTAGTAGGAGGGCTGAAAGGGA  
GCAACTTTTCTCCAATCCTGGAAATTCGACACAATTAGATTTGAACTGCTGGAAATACAACACATGTTAAATCT  
TAAGTACAAGGGGGAAAAATAAATCAGTTATTGAAACATAAAAAATGAATACCAAGGACCTGATCAAATTTACA  
CAGCAGTTTCTTGCAACACTTTCAGCTCCCCATGCTCCAGAATACCCACCCAAGAAAATAATAGGCTTTAAAC  
AATATCGGCTCCTCATCCAAAGAACAACCTGCTGATTGAAACACCTCATTAGCTGAGTGTAGAGAAGTGCATCTTA  
TGAAACAGTCTTAGCAGTGGTAGGTTGGGAAGGAGATAGCTGCAACCAAAAAAGAAATAAATATTCTATAAACCT  
TC

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**FIGURE 2745**

MAHRFPALTQEQKKELSEIAQSIVANGKGILAADESVGTMGNRLQRIKVENTEENRRQFREILFSVDSSINQSIG  
GVILFHETLYQKDSQGKLFRNILKEKGIVVGIKLDQGGAPLAGTNKETTIQGLDGLSERCAQYKKDGVDFGKWRA  
VLRIADQCFSSLAIQENANALARYASICQQNGLVPIVEPEVIPDGDHLEHCQYVTEKVLAAVYKALNDHHVYLE  
GTLLKPNMVTAGHACTKKYTPEQVAMATVTALHRTVPAAVPGICFLSGGMSEEDATLNLNAINLCPLPKPWKLSF  
SYGRALQASALAAWGGKAANKEATQEAFMKRAMANCQAAKGQYVHTGSSGAASTQSLFTACYTY

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**FIGURE 2746**

GCCGCTTTGGGGGCCGCGGTCTCTCCGCAGCTCGCGGGTCACATGGCCCGCTGAGCAAGGGGAGCCCTGCGCCT  
GAGCTGCGAGGCGGGAGGAGGTGAGGCTCCGGCGCACACCCAAACCGCGCTGCGCCCGCTCCTTCCGGGCCCCGG  
AGATGGCGCCTCCACCGGGATGAGCTAGCCAGCCTGGGCAATACCAGAGGCGGCCCTCGGCGCGCGCAGGGGACC  
GAGCTGGTCGCCCCAACCGGGTTTGATTTCTGATGACTCTGGCCTGAGTTCCAGGATGGTTTTTCTTGGGACCA  
GACATGAACAAAAGTTGACCTCATGAGCACTTCAACCTCTCCAGCTGCCATGCTCCTCCGGAGGCTGCGGCGACT  
GTCTGGGGCAGCACTGCTGTCCAGCTCTTTCATCCTAACAGTGGTGACGTTTGGCCTGCTGGCCCCCTGGCCTG  
TCACCGACTTCTACACTCTTACTTCTATCTGCGCCATTGGCATCTGAACCAAATGAGCCAAGAGTTCTCTGCAGCA  
AAGCTTGAAAGAGGGTGAGGCTGCCCTCCACTATTTTGGAGAGCTTCCCTCTGCCAATGGCTCAGTGCCCATTTGT  
CTGGCAGGCCACCCCCGGCCCTGGCTGGTGATCACCATCATCACTGTGGACAGGCAGCCTGGCTTCCACTACGT  
CCTGCAGGTTGTGTCCCAGTTCCACCGGCTTCTTCAGCAATGTGGCCCCCAGTGCGAGGGGCACCAACTCTTCTCT  
GTGCAACGTGGAGCGTAGTGTGAGCCATTTTGATGCCAAGTTGCTCTCCAGTATGTCCCTGTGGCCAATCGCTA  
TGAGGGCACTGAGGATGATTATGGTGATGACCCTTCGACCAACTCGTTTGAGAAAGAGAAGCAGGACTATGTCTA  
TTGCTTGGAGTCATCCCTGCAGACCTACAACCCAGACTACGTCTGTAGGTAGAAGACGATGCTGTACCAGAAGA  
GCAGATCTTCCAGTCTTGGAGCACCTTCTGCGGGCTCGCTTCTCTGAGCCACATCTCAGAGATGCCCTTTATCT  
CAAGCTGTATCACCCCGAGAGGCTCCAGCACTACATCAATCCAGAGCCCATGCGGATCCTGGAATGGGTGGTGT  
AGGCATGTTGCTGGGGCCCTTACTAACCTGGATATACATGAGGTTTGCCAGCCGCCCAGGGTTAGCTGGCCTGT  
AATGCTCTTCTTCTCCCTGTATAGCATGGGTCTGGTGGAGCTGGTGGGTGCGCACTATTTCTGGAAC TGCGGCG  
GCTGAGTCCTTCCCTGTACAGTGTGGTTCTGCTCTCAGTGTGACCCCGCCATGCTCTTCCCGGCACCTGC  
GGCCCGCCGGACCCTCACCTACCTGTCCCAAGTGACTGCCACAAGGGCTTTGGCAAGGACATGGCACTGTACTC  
GCTGTGAGGGCCAAGGGAGAGAGGGCCTATGTAGTGGAGCCGAACCTCGTGAAACACATCGGGCTCTTCTCCAG  
TCTCCGGTACAACCTTTCATCCAGTCTCCTCTAGGGTGCCAAGAGATGCCCTTCTGAAGTTGGCCACTTCTTGAA  
GATTCAAATATTTATCTCTTTATTTAGACATGGTTGCCTGCAGGTATTTCACTGTTTACTGTTGTAGAGATATA  
GGCACTGGGGCAGCTGAGGAACCTCAATATGTTAAGAGCCTTGGCTTTGGTAGCCTCCTGGCAGGAGCAGCAGTT  
TGCCACAGGTCCGGACCTCTCCCTCCACACAGCCACACTGCCTCATGCAGTCTGACCCACCCAGTGAGGGTGCAT  
TTGAACACTGATTATATTCTCCATTTGTTTTTAAGCTCTGCTTTGTGTTAGAGCTTGTGACTGCCAAAAATTTTG  
TGCACAGTGATATGACTGTTTTAGGATCTTAAGGGTAGAATTTGTGAAAGGTGAGATCCTTTGGAATTGAGTTC  
TTTCTCATTGGGTATGAAAATGGATGTATGTTTGAATATATGCCCAACGAGGCAGGACCATGTGGATAGATTCC  
ATTTGTTTCCTTGACCTGATGTAATAAAACTGATAAAAGCCGTGCAGTGCCCGGCATCTTGGAAAAAAAAAA  
AAAAAAAAA

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**FIGURE 2747**

MSTSTSPAAMLLRRRLRRLSWGSTAVQLFILT VVTFGLLAPLACHRLLSYFYLRHWHLNQMSQEFLLQOSLKEGEA  
ALHYFEELPSANGSVPIVWQATPRPWLVTITITVD RQPGFHYVLQVVSQFHRL LQQCGPQCEGHQLFLCNVERSV  
SHFDAKLLSKYVPVANRYEGTEDDYGDDPSTNSFEKEKQDYVYCLESSLQTYNPDYVLMVEDDAVP EEQIFPVLE  
HLLRARFSEPHLRDALY LKLYHPERLQHYINPEPMRILEWVGVM L LGPLL TWIYMRFASRPGFSWPV MLFFSLY  
SMGLVELVGRHYFLELRRLSPSLYSVVPASQCCTPAMLF PAPAARRTLTYLSQVYCHKGFGKDMALYSLLRAKGE  
RAYVVEPNLVKHIGLFSSLRYNFHP SLL

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**FIGURE 2748**

GAGATACGCGCACACACACACACAAACGCACTCAGATTTCCCGGACCCTGGTTTTCTCCTGTGACCCTTTCGGG  
GCCGGGCTCTCACCTAAAGAAGCAGCCCCGCCCTGGGGTGGCCCCACCCTCTCTTGGGACCTGTCATAAGTCGG  
ACCCCGGGCGCCCGGCTGCGCAGTCCCAGCCGCCCTTCCCAGGCAGTGGAACCTTCGGGCTCCTGAGCTTCAGGA  
TGGTTCGTACTAAGACATGGACCTGAAGAAGCACTTTGTTGGCTATCCTACTAATAGTGACTTTGAGTTGAAGA  
CAGCTGAGCTCCACCCCTTAAAAAATGGAGAGGTCCTGCTTGAAGCTTTGTTCTCACCGTGGATCCCTACATGA  
GAGTGGCAGCCAAAAGATTGAAGGAAGGTGATACAATGATGGGGCAGCAAGTGGCCAAAGTTGTGGAAAGTAAAA  
ATGTAGCCCTACCAAAGGAAGTATTGTACTGGCTTCTCCAGGCTGGACAACGCACTCCATTTCTGATGGGAAAG  
ATCTGGAAGAGCTGCTGACAGAGTGGCCAGACACAATACCACTGTCCTTGGCTCTGGGGACAGTTGGCATGCCAG  
GCCTGACTGCCTACTTTGGCCTACTTGAAATCTGTGGTGTGAAGGGTGGAGAAACAGTGATGGTTAATGCAGCAG  
CTGGAGCTGTGGGCTCAGTCGTGGGGCAGATTGCAAAGCTCAAGGGCTGCAAAGTTGTTGGAGCAGTAGGGTCTG  
ATGAAAAGGTTGCCTACCTTCAAAGCTTGGATTTGATGTGCTCTTTAACTACAAGACGGTAGAGTCTTTGGAAG  
AAACCTTGAAGAAAGCGTCTCCTGATGGTTATGATTGTTATTTTGATAATGTAGGTGGAGAGTTTTCAAACACTG  
TTATCGGCCAGATGAAGAAATTTGGAAGGATTGCCATATGTGGAGCCATCTCTACATATAACAGAACCGGCCAC  
TTCCCCCAGGCCACCCCCAGAGATTGTTATCTATCAGGAGCTTCGCATGGAAGCTTTTGTCTCTACCGCTGGC  
AAGGAGATGCCCGCCAAAAGCTCTGAAGGACTTGCTGAAATGGGTCTTAGAGGGTAAATCCAGTACAAGGAAT  
ATATCATTGAAGGATTTGAAAACATGCCAGCTGCATTTATGGGAATGCTGAAAGGAGATAATTGGGGAAGACAA  
TAGTGAAAGCATGAAAAAGAGGACACATGGAATCTGGAGGCCATTTAGATGAATTAGTTAATTTGTTTTTACCAT  
TTAGCAAAAATGTATACTACCTTAAATGTCTTAAGAAATAGTACTATAATGAGTTTGAGCTACTTAATAAAATA  
CATTTAAGTGGTATGTAA



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**FIGURE 2749**

MVRTKTWTLKKHFVGYPTNSDFELKTAELPPLKNGEVILLEALFLTVDPYMRVAAKRLKEGDTMMGQQVAKVVESK  
NVALPKGTIVLASPGWTTHSISDGKDLEKLLTEWPDITPLSLALGTVGMPGLTAYFGLLEICGVKGGETVMVNAA  
AGAVGSVVGQIAKLKGCKVVGAVGSDEKVAYLQKLGFDVVFNYKTIVESLEETLKKASPDGYDCYFDNVGGEFSNT  
VIGQMKKFGRIAICGAISTYNRTGPLPPGPTPRDCYLSGASHGSFCRLPLARRCPPKSSEGLAEMGLRG

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**FIGURE 2750**

GAACCTCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCTCCCGACATATGTTCT  
CTAGGCCTTTTAGAAAACATGGAGTTGTTCCCTTTGGCCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAG  
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA  
ATGTTACCCAGCATGCTGTTGGTATTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATGTGC  
ATATTGAGCACATTAAGCACTCTGAGCCGAGATAGCTTCCTGAAATGTGTGAAGGAAAATGATCAGAAAAAGAAA  
GAAGCCAAAGAGAAAGGTACCTGGGTTCAACTGAAGTGCCAGCCTGCTCCACCCAGAGAAGCACACTTTGTGAGA  
ACCAATGGGAAGGAGCCTGAACTGCTGGAACCTATTCCCTATGAATTCATGGCATAATAGGTGTTTAAAAAATAA  
ATAAATAAAAGACCTCTGGGCTGTTA

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**FIGURE 2751**

TGGACGGTCTGAAAGGGAGTGTTTCGGGTTTCGCTGGGGCTCGCGGCTCCAGAGCCCAGCATGCTTCCTCGCGA  
GCCTCTTCCACGCAGGCAACCAAACTAAAGCACCCGACGACTTAGTTGCTCCGGTCGTGAAGAAACCACACATC  
TATTATGGAAGTTTGGGAAGAGAAGGAGAGGGAGCGTCTGGCCAAAGGAGAGTCTGGGATTTTGGGGAAAGACGGA  
CTTAAAGCAGGGATCGAAGCTGGAAATATTAATATAACCTCTGGAGAAGTGTGAAATTGAAGAGCGTATCAGC  
GAGCGACAGGCAGAAGTATTGGCTGAGTTTGAGAGAAGGAAGCGAGCCCCGGCAGATCAATGTTTCCACAGATGAC  
TCAGAGGTCAAAGCTTGCCCTAGAGCCTTGGGGGAACCCATCACACTTTTGGAGAGGGTCTCTGTAAGAAGA  
GAAAGGTTAAGAAATATCCTCTCAGTTGTCGGTACTGATGCCTTGAAAAGACCAAAAAGGATGATGAGAAGTCT  
AAAAAGTCCAAAGAAGAGTATCAGCAAACCTGGTATCATGAAGGACCAATAGCTTGAAGGTGGCAAGACTATGG  
ATTGCTAATTATTCGTTGCCAGGGCAATGAAACGCTTGGAAGAGGCCGACTCCATAAGGAGATTCTTGAGACA  
ACAAGGACCTCCAGATGCAAGAGCTGCACAAGTCTCTCCGGTCTTTGAATAATTTTGCAGTCAGATTGGGGAT  
GATCGGCCTATCTCCTACTGTCACTTTAGTCCCAATTCCAAGATGCTGGCCACAGCTTGTGGAGTGGGCTTTGC  
AAGCTCTGGTCTGTTTCTGATTGCAACCTCCTTCACACTCTTCGAGGGCATAACACAAATGTAGGAGCAATTGTA  
TTCCATCCCAATCCACTGTCTCCTTGGACCCAAAAGATGTCAACCTGGCCTCTGTGCGGCTGATGGCTCTGTG  
AAGCTTTGGAGTCTCGACAGTGATGAACAGTGGCAGATATTGAAGGCCATACAGTGCCTGTGGCGCGGGTAATG  
TGGCATCCTTCAGGACGTTTCTTGGGCACCACCTGCTATGACCGTTTATGGCGCTTATGGGATTGGAGGCTCAA  
GAGGAGATCCTGCATCAGGAAGGCCATAGCATGGGTGTGTATGACATTGCCTTCCATCAAGATGGCTCTTTGGCT  
GGCACTGGGGGACTGGATGCATTTGGTCGAGTTTGGGACCTACGCACAGGACGTTGTATCATGTTCTTAGAAGGC  
CACCTGAAAGAAATCTATGGAATAAATTTCTCCCCCAATGGCTATCACATTGCAACCGGCAGTGGTGACAACACC  
TGCAAAGTGTGGGACCTCCGACAGCGGCGTTGCGTCTACACCATCCCTGCTCATCAGAACTTAGTGACTGGTGTC  
AAGTTTGAGCCTATCCATGGGAACCTTCTTGCTTACTGGTGCCTATGATAACACAGCCAAGATCTGGACGCACCCA  
GGCTGGTCCCCGCTGAAGACTCTGGCTGGCCACGAAGGCAAAGTGATGGGCCTAGATATTTCTTCCGATGGGCAG  
CTCATAGCCACTTGCTCATATGACAGGACCTTCAAGCTGTGGATGGCTGAATAGATGACAATGGGAAAAGGACTT  
GAACCTCAAGCTCTCTCTAAGGAGCTGTTTTCTCAAACGAGAAGAAATTGAAGTGTGTTAGTTCTATCATGTTTTT  
TGCCAATTACCATGCATAGACCCCTCAGTAGAATTGGATTTCATGTCAGCCCCCACTCCAGGAAGGCAGCCCAAT  
CCCTAGGTGATGGGGAACCCCTCTCACGGTTGAAAATTTATTACCTTTTTACGCCCTGCCACGAACCTGTGTAGAC  
ATTGTTTTTATTAATCTTTTGTGTTGGCCGGGCGTGGTGGCTCACGCCTGTAATCCTAGCACTTTGGGAGGCCGAG  
GTGGGTAGATCGCTTGAGCTCAGGAGTTCAAGACGAGCCTGGGCAACATGGCAAATGCCGTCTCTGCAAAAAAAT  
ACTAAATTAGCTGGTCGCGGTGGCTTCTGCCTGTGATTCCGGCTACTTGGGAGGCTGAGGTGGGAGGGATTGCT  
TAAGCCTGGGAGGCAGAGGTTGCAGTGAGCCGAGATTGCGCCATTGCACTCTAGCCTGTGTGACAGAGCAAGACC  
CTGTCTCAAAAA

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**FIGURE 2752**

MASSRASSTQATKTKAPDDL VAPVVKKPHIYYGSLEEKERERLAKGESGILGKDGLKAGIEAGNINITSGEVFEI  
EERISERQAEVLAEFERRKRARQINVSTDDSEVKACLRALGEPITLFGEGPAERRERLRNILSVVGTDALKKTKK  
DDEKSKKSKEEYQQTWYHEGPNSLKVARLWIANYSLPRAMKRLEEARLHKEIPETTRTSQMQLHKSRLSLNNFC  
SQIGDDRPISYCHFS P NSKMLATACWSGLCKLWSVPDCNLLHTLRGHNTNVGAIVFHPKSTVSLDPKDVNLASCA  
ADGSVKLWSLDSDEPVADIEGHTVRVARVMWHPSGRFLGTTTCYDRSWRLWDLEAQEEILHQEGHSMGVYDIAFHQ  
DGSLAGTGGLDAFGRVWDLRTGRCIMFLEGLHKEIYGINFSPNGYHIATGSGDNTCKVWDLRQRRVCVYTIPAHQN  
LVTGVKFEP IHGNFLLTGAYDNTAKIWITHPGWSPLKTLAGHEGKVMGLDISSDGLIATCSYDRTFKLWMAE

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FIGURE 2753

GGCACGAGGGACGCGGGAAGTCCGGACGCAGTAGCTCCCTGAAGCGGAGGCGAAGGGGAGTTTAAGCCCCAGCGG  
CGGCAATGGCGGAGAGGCCCGAGGACCTAAACCTGCCCAATGCCGTGATCACCAGGATCATCAAGGAGGCGCTCC  
CGGACGGTGTCAACATCTCCAAGGAGGCCCGGAGCGCCATCTCCGCGCCGCCAGCGTCTTCGTGCTGTACGCCA  
CATCCTGTGCTAACAACTTTGCAATGAAAGGAAAGCGGAAGACGCTGAATGCCAGTGATGTCTCTCAGCCATGG  
AAGAGATGGAGTTCAGCGGTTTCGTTACCCCATTTGAAAGAAGCTCTGGAAGCATATAGGCGGGAGCAGAAAGGCA  
AGAAGGAGGCCTCAGAGCAAAAGAAGAAGGACAAAGACAAAAAACAGACTCGGAAGAGCAAGACAAGAGCAGGG  
ATGAGGACAATGATGAAGACGAAGAAAGGCTGGAAGAAGAAGAACAGAATGAAGAGGAAGAAGTAGACAACTGAA  
AAGGGCGGAGACTGTGGCACCTTGGAAGGTACCCTTGAAATGAGACGTGTACGTGTTTCTGTGAAGCTTTTC  
CATGCTGGGCAGAGTAGTCTCAGGCAAAAGTGCCTGAAAAGATCAGAATAAAAACTGACTAGAAATACCGTCAAA  
ACCAGCACTTACCAAACCTCAGAGCATCTGAGTAGCAGAATCCTGTTTTGCTTCATCAATCTGAAGGTTATGGCCT  
TTTGACAAGAGGGATTCTGAACGACTAAATTAGTCAGTTTGCTCGTTTTGTTTACTTAAATGTATGGTTAGATG  
GTTTTTGATCTGCAGTCTTCCCTAGTCCCCCAATAAGTAATAATAACTTCCATGCTGCCTGCTGTGTTCCAGAT  
CACAGAGGCAGCCAAGGCTCAGGAAAACTGGGGCTTTGCTTATGGTCAGCCTATGTTTGATTGCACAGTCTTTG  
ACAATAGTAGCTTACTAAGACTGCTCAGAATGAGTAAGCTTTAGGAAACTACTAAAATGCTGTGGGAGAATAACA  
AAATCCGTTCTCTCTCTTCACTTGACAGAAGCATTAACTGAATTTTGTTCATAGACCCACTTGGCCCCAAAC  
CTTTCTATATTGCCTGTAGATGATCGGCCTGCTGGTGTGGTAGTAATCTGATCACAGATATTCTTAAATCAGCAG  
TGTGGAATGGTATTAGTCAAACATGGTGCCAGTGTCTTTTACAAAACAGATGGCATAGTGTGAGATGTACCTTA  
CTCTCTGCTACTGTACAGCTTTAGGATTTGTATCACCTCCCGGAAGGTGTAAACCCAGGCTTCTCTCTCTG  
TAGTCCATCTCCAGACTTGTGACTATGGCTTTTCATTCTTCAATTCATGACGAGTGCCAAACTTGATTTTCTCT  
AGGCACAGCTTTCTCCCTCTGTGCTCCTGCTTCTCTCTCTGCTCCTCTCTGCTCCCCATCCCACTTTCT  
CATCTGCCCTCCTTTTCTCACTTCTGTCTAGTCTGTAAGCTTTGATAACCTGCTTAATACTCCAAAGTGTGAGTTCC  
TCTGATCTCTTGATTCTTAGTTCTAATCTCACGTTTTGTTTTTAAGAGATGGAGTCTCTCACTCTGTGGCCCAG  
GCTGGAGTGCAGTGGCATGATCATAGCTCATTGCATCCTTGAAATCCTGGGCTCAGGTGATCCTCCCGCCTGAGC  
CTCCTGAGTATCTGGGACTACAGATGCGTGCCACCAAGCCTGGCTAATTTTGTCTCATGTCTTCTAAAAATTATT  
TTGTGAAGCCCCCTTCAAAAAACCTTAAGGGAAATCTGATGGTGCTCAGGAATCTAACTCTCCCTAAACCATCC  
TCTTTAACTGCTTCTAAAAATATCTCTGTTGGCCTTTCTTAGCCTTTTCTGTTTCAATTCAGTGTCCAAGCGCT  
TTTTGTTTCTAAGTTGAGTGCTTGGGGTTTGACAGGTAGTGACGTGTAGTTTGACACTGTTAACTTGTTAAATAC  
AGTGAAGTTTGTGAGTGAAGAATGCTGAGAAGATTGTAATGCTTTGTACAAATAAAAGTCTTGTTAAAAAAA  
AAAAAAAAAAAAAA

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**FIGURE 2754**

MAERPEDLNLPNAVITRIIKEALPDGVNISKEARSAISRAASVFVLYATSCANNFAMGKRKTLNASDVLSAMEE  
MEFQRFVTPLKEALEAYRREQKGKKEASEQKKKDKDKKTDSEEQDKSRDEDNDEDEERLEEEEQNEEEVDN

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**FIGURE 2755A**

ACCGGCCACAGCCTGCCTACTGTACCCGCTCTCCCGCGCGCAGATACACGCCCCGCTCCGTGGGCACAAAG  
GCAGCGCTGCTGGGGAACCTCGGGGAACGCGCACGTGGGAACCGCCGAGCTCCACACTCCAGGTACTTCTTCCA  
AGGACCTAGGTCTCTCGCCCATCGGAAAGAAAATAATTCTTCAAGAAGATCAGGGACAAGTATTGAAGTCTA  
CTCTGTGCTTCTAAATCCCCAATTCTGTGAAAGTGAGATACCCTAGAGCCCTAGAGCCCCAGCAGCACCAGCC  
AAACCCACCTCCACCATGGGGGCCATGACTCAGCTGTTGGCAGGTGTCTTTCTGTCTTTCCTTGCCCTCGCTACC  
GAAGGTGGGGTCTCAAGAAAGTCATCCGGCACAAGCGACAGAGTGGGGTGAACGCCACCCTGCCAGAAGAGAAC  
CAGCCAGTGGTGTTTAACCACGTTTACAACATCAAGCTGCCAGTGGGATCCAGTGTTCGGTGGATCTGGAGTCA  
GCCAGTGGGGAGAAAGACCTGGCACCAGCTTCAGAGCCCAGCGAAAGCTTTCAGGAGCACACAGTGGATGGGGAA  
AACCAGATTGTCTTACACATCGCATCAACATCCCCCGCGGGCTGTGGCTGTGCCGAGCCCCCTGATGTTAAG  
GAGCTGTGAGCAGACTGGAGGAGCTGGAGAACCTGGTGTCTTCCCTGAGGGAGCAATGTACTGCAGGAGCAGGC  
TGCTGTCTCCAGCCTGCCACAGGCCGCTTGGACACCAGGCCCTCTGTAGCGGTGGGGCAACTTCAGCACTGAA  
GGATGTGGCTGTGTCTGCGAACCTGGCTGGAAAGGCCCAACTGCTCTGAGCCCGAATGTCCAGGCAACTGTAC  
CTTCGAGGCCGCTGATTGATGGGCAGTGCATCTGTGACGACGGCTTCACGGGCGAGGACTGCAGCCAGCTGGCT  
TGCCCCAGCGACTGCAATGACCAGGGCAAGTGCCTAAATGGAGTCTGCATCTGTTTGAAGGCTACGCCGGGGCT  
GACTGCAGCCGTGAAATCTGCCAGTGCCTGCAGTGAGGAGCACGGCACATGTGTAGATGGCTTGTGTGTGTGC  
CACGATGGCTTTCAGGGCGATGACTGCAACAAGCCTCTGTGTCTCAACAATTGTACAACCGTGGACGATGCGTG  
GAGAATGAGTGCCTGTGTGATGAGGGTTTCACGGGCGAAGACTGCAGTGAGCTCATCTGCCCAATGACTGCTTC  
GACCGGGGCCGCTGCATCAATGGCACCTGCTACTGCGAAGAAGGCTTCACAGGTGAAGACTGCGGGAACCCACC  
TGCCCCACATGCTGCCACACCAGGGCCGGTGTGAGGAGGGGAGTGTGTATGTGATGAGGGCTTTCGGCGTGTG  
GACTGCAGCGAGAAGAGGTGTCTGTGACTGTCAACATCGTGGCCGCTGTGTAGACGGGCGGTGTGAGTGTGAT  
GATGGTTTCACTGGAGCTGACTGTGGGGAGCTCAAGTGTCCCAATGGCTGCAGTGGCCATGGCCGCTGTGTCAAT  
GGGCAGTGTGTGTGATGAGGGCTATACTGGGGAGGACTGCAGCCAGCTACGGTGCCCCAATGACTGTCAAGT  
CGGGGCCGCTGTGTGAGGGCAATGTGTATGTGAGCAAGGCTTCAAGGGCTATGACTGCAGTGACATGAGCTGC  
CCTAATGACTGTCAACAGCACGGCCGCTGTGTGAATGGCATGTGTGTTGTGATGACGGCTACACAGGGGAAGAC  
TGCCGGGATCGCAATGCCCCAGGACTGCAGCAACAGGGGCCTCTGTGTGGACGGACAGTGCCTGTGTGAGGAC  
GGCTTCACCGGCCCTGACTGTGCAGAACTCTCTGTCCAAATGACTGCCATGGCCAGGGTTCGCTGTGTGAATGGG  
CAGTGCCTGTGCCATGAAGGATTTATGGGCAAGACTGCAAGGAGCAAAGATGTCCAGTGAAGTGTGATGGCCAG  
GGCCGCTGCGTGGACGGCCAGTGCATCTGCCACGAGGGCTTCACAGGCTGGACTGTGGCCAGCACTCTGCCCC  
AGTGAAGTGCACAACTTAGGACAATGCGTCTCGGGCCGCTGCATCTGCAACGAGGGCTACAGCGGAGAAGACTGC  
TCAGAGGTGTCTCTCCCAAAGACCTCGTTGTGACAGAAGTGACGGAAAGAGACGGTCAACCTGGCCTGGGACAAT  
GAGATGCGGGTACAGAGTACCTTGTGCTGTACACGCCACCCAGAGGGTGGTCTGGAAATGAGTTCCTGTGTG  
CCTGGGGACCAGAGCTCCACCATCATCCAGGAGCTGGAGCCTGGTGTGGAGTACTTTATCCGTGTATTTGCCATC  
CTGGAGAACAAGAAGAGCATTCTGTGAGCGCCAGGGTGGCCACGTACTTACCTGCACCTGAAGGCCTGAAATTC  
AAGTCCATCAAGGAGACATCTGTGGAAGTGGAGTGGATCCTCTAGACATTGCTTTTGAAACCTGGGAGATCATC  
TTCCGGAATATGAATAAAGAAGATGAGGGAGAGATCACAAAAGCCTGAGGAGGCCAGAGACCTCTTACCGGCAA  
ACTGGTCTAGCTCCTGGGCAAGAGTATGAGATATCTCTGCACATAGTGAAAAACAATACCCGGGGCCCTGGCCTG  
AAGAGGGTGACCACCACACGCTTGGATGCCCCCAGCCAGATCGAGGTGAAAGATGTACAGACACCACTGCCTTG  
ATCACCTGGTTCAAGCCCCCTGGCTGAGATCGATGGCATTGAGCTGACCTACGGCATCAAAGACGTGCCAGGAGAC  
CGTACCACCATCGATCTCACAGAGGACGAGAACCAGTACTCCATCGGGAACCTGAAGCCTGACACTGAGTACGAG  
GTGTCCCTCATCTCCCGCAGAGGTGACATGTCAAGCAACCCAGCCAAAGAGACCTTCACAACAGGCCTCGATGCT  
CCCAGGAATCTTCGACGTGTTTCCAGACAGATAACAGCATCACCTGGAATGGAGGAATGGCAAGGCAGCTATT  
GACAGTTACAGAATTAAGTATGCCCCATCTCTGGAGGGGACCACGCTGAGGTTGATGTTCCAAAGAGCCAACAA  
GCCACAACCAAAACCACTCACAGGTCTGAGGCCGGGAACTGAATATGGGATTGGAGTTTCTGCTGTGAAGGAA  
GACAAGGAGAGCAATCCAGCGACCATCAACGCAGCCACAGAGTTGGACACGCCCAAGGACCTTCAGGTTTCTGAA  
ACTGCAGAGACCAGCCTGACCCTGCTCTGGAAGACACCGTTGGCCAAATTTGACCGCTACCGCCTCAATTACAGT  
CTCCCCACAGGCCAGTGGGTGGGAGTGCAGCTTCCAAGAAACACCACTTCTATGTCTGAGAGGCCTGGAACCA  
GGACAGGAGTACAATGTCTCTGACAGCCGAGAAAGGCAGACACAAGAGCAAGCCCGCACGTGTGAAGGCATCC  
ACTGAACAAGCCCCCTGAGCTGGAAAACCTCACCGTGAAGTGGCTGGGATGGCCTCAGACTCAACTGGACC

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**FIGURE 2755B**

GCAGCTGACCAGGCCTATGAGCACTTTATCATTTCAGGTGCAGGAGGCCAACAAAGGTGGAGGCAGCTCGGAACCTC  
ACCGTGCCTGGCAGCCTTCGGGCTGTGGACATACCGGGCCTCAAGGCTGCTACGCCTTATACAGTCTCCATCTAT  
GGGGTGATCCAGGGCTATAGAACACCACTGCTCTCTGCTGAGGCCTCCACAGGGGAACTCCCAATTTGGGAGAG  
GTCGTGGTGGCCGAGGTGGGCTGGGATGCCCTCAAACCTCAACTGGACTGCTCCAGAAGGGGCTATGAGTACTTT  
TTCATTTCAGGTGCAGGAGGCTGACACAGTAGAGGCAGCCAGAACCTCACCGTCCCAGGAGGACTGAGGTCCACA  
GACCTGCCTGGGCTCAAAGCAGCCACTCATTATACCATCACCATCCGCGGGGTCCTCAGGACTTCAGCACAAACC  
CCTCTCTCTGTTGAAGTCTTGACAGAGGAGGTTCCAGATATGGGAAACCTCACAGTGACCGAGGTAGCTGGGAT  
GCTCTCAGACTGAACTGGACCACGCCAGATGGAACCTATGACCAGTTTACTATTCAGGTCCAGGAGGCTGACCAG  
GTGGAAGAGGCTCACAATCTCAGGTTTCTGGCAGCCTGCGTTCCATGGAAATCCCAGGCCTCAGGGCTGGCACT  
CCTTACACAGTACCCCTGCACGGCGAGGTGAGGGGCCACAGCACTCGACCCCTTGCTGTAGAGGTGCTCACAGAG  
GATCTCCACAGCTGGGAGATTTAGCCGTGCTGAGGTTGGCTGGGATGGCCTCAGACTCAACTGGACCGCAGCT  
GACAATGCCTATGAGCACTTTGTCATTTCAGGTGCAGGAGGTCAACAAAGTGGAGGCAGCCAGAACCTCACGTTG  
CCTGGCAGCCTCAGGGCTGTGGACATCCCGGGCCTCGAGGCTGCCACGCCTTATAGAGTCTCCATCTATGGGGTG  
ATCCGGGGCTATAGAACACCACTACTCTCTGCTGAGGCCTCCACAGCCAAAGAACCTGAAATTGGAACTTAAAT  
GTTTCTGACATAACTCCCGAGAGCTTCAATCTCTCTGGATGGCTACCGATGGGATCTTCGAGACCTTTACCATT  
GAAATTATTGATTCCAATAGGTTGCTGGAGACTGTGGAATATAATATCTCTGGTGTGAACGAAGTCCCATATC  
TCAGGGCTACCCCTAGTACTGATTTTATTGTCTACCTCTCTGGACTTGCTCCAGCATCCGGACCAAAACCATC  
AGTGCCACAGCCACGACAGAGGCCCTGCCCTTCTGGAAAACCTAACCATTTCCGACATTAATCCCTACGGGTTT  
ACAGTTTCTGGATGGCATCGGAGAATGCCTTTGACAGCTTTCTAGTAACGGTGGTGGATTCTGGGAAGCTGCTG  
GACCCCAAGGAATTCACACTTCAGGAACCCAGAGGAAGCTGGAGCTTAGAGGCCTCATAACTGGCATTGGCTAT  
GAGGTTATGGTCTCTGGCTTACCCCAAGGGCATCAAACCAAGCCCTTGAGGGCTGAGATTGTTACAGAAGCCGAA  
CCGGAAGTTGACAACCTTCTGGTTTCAGATGCCACCCAGACGTTTCCGTCTGTCTGGACAGCTGATGAAGGG  
GTCTTCGACAATTTTGTTCAAAATCAGAGATACCAAAAAGCAGTCTGAGCCACTGGAATAACCTTACTTGCC  
CCCGAACGTACCAGGGACATAACAGGTCTCAGAGAGGCTACTGAATACGAAATTGAACTCTATGGAATAAGCAAA  
GGAAGGCGATCCAGACAGTCAGTGCTATAGCAACAACAGCCATGGGCTCCCCAAAGGAAGTCATTTTCTCAGAC  
ATCACTGAAAATTCGGCTACTGTCAGCTGGAGGGCACCCACAGCCCAAGTGGAGAGCTTCCGGATTACCTATGTG  
CCCATTACAGGAGGTACACCCTCCATGGTAACCTGTGGACGGAACCAAGACTCAGACCAGGCTGGTGAACCTCATA  
CCTGGCGTGGAGTACCTTGTACAGCATCATCGCCATGAAGGGCTTTGAGGAAAGTGAACCTGTCTCAGGGTCATT  
ACCACAGCTCTGGATGGCCCATCTGGCCTGGTGACGCCAACATCACTGACTCAGAAGCCTTGGCCAGGTGGCAG  
CCAGCCATTGCCACTGTGGACAGTTATGTCATCTCCTACACAGGCGAGAAAGTGGCAGAAATTACACGCACGGTG  
TCCGGGAACACAGTGGAGTATGCTCTGACCGACCTCGAGCCTGCCACGGAATACACACTGAGAATCTTTCAGAG  
AAAGGGCCCCAGAAGAGCTCAACCATCACTGCCAAGTTCACAACAGACCTCGATTCTCCAAGAGACTTGACTGCT  
ACTGAGGTTTCAGTCGGAACCTGCCCTCCTTACCTGGCGACCCCCCGGGCATCAGTCACCGGTTACCTGCTGGT  
TATGAATCAGTGGATGGCACAGTCAAGGAAGTCATTGTGGGTCCAGATACCACCTCCTACAGCCTGGCAGACCTG  
AGCCCATCCACCCACTACACAGCCAAGATCCAGGCACTCAATGGGCCCTGAGGAGCAATATGATCCAGACCATC  
TTCACCACAATTGGACTCCTGTACCCCTTCCCCAAGGACTGCTCCCAAGCAATGCTGAATGGAGACACGACCTCT  
GGCCTCTACACCATTTATCTGAATGGTGATAAGGCTGAGGCGCTGGAAGTCTTCTGTGACATGACCTCTGATGGG  
GGTGGATGGATTGTGTTTCTGAGACGCAAAAACGGACGCGAGAATTCTACCAAACTGGAAGGCATATGCTGCT  
GGATTTGGGGACCGCAGAGAAGAATTCTGGCTTGGGCTGGACAACCTGAACAAAATCACAGCCCAGGGGAGTAC  
GAGCTCCGGGTGGACCTGCGGGACCATGGGGAGACAGCCTTTGCTGTCTATGACAAGTTTCAGCGTGGGAGATGCC  
AAGACTCGCTACAAGCTGAAGGTGGAGGGGTACAGTGGGACAGCAGGTGACTCCATGGCCTACCACAATGGCAGA  
TCCTTCTCCACCTTTGACAAGGACACAGATTACAGCCATCACCACCTGTGCTCTGTCTACAAAGGGGCTTTCTGG  
TACAGGAAGTGTACCGTGTCAACCTGATGGGGAGATATGGGGACAATAACCACAGTCAGGGCGTTAACTGGTTC  
CACTGGAAGGGCCACGAACACTCAATCCAGTTTGTGAGATGAAGCTGAGACCAAGCAACTTCAGAAATCTTGAA  
GGCAGGCGCAACCGGGCATAAATTCAGGGACCACTGGGTGAGAGAGGAATAAGGCCAGAGCGAGGAAAGGATT  
TTACCAAAAGCATCAATACAACCAGCCCAACCATCGGTCCACACCTGGGCATTTGGTGAGAGTCAAAGCTGACCAT  
GGATCCCTGGGGCAACGGCAACAGCATGGGCCTCACCTCCTCTGTGATTTCTTTCTTTCACCAAAAGACATCAG  
TCTCCAACATGTTTCTGTTTGTGTTTGTGATTACGCAAAAATCTCCAGTGACAACATCGCAATAGTTTTTACT



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**FIGURE 2755C**

TCTCTTAGGTGGCTCTGGGAATGGGAGAGGGGTAGGATGTACAGGGGTAGTTTGTTTTAGAACCCAGCCGTATTTT  
ACATGAAGCTGTATAATTAATTGTCATTATTTTTGTTAGCAAAGATTAAATGTGTCATTGGAAGCCATCCCTTTT  
TTTACATTTTCATACAAACAGAAACCAGAAAAGCAATACTGTTTCCATTTTAAGGATATGATTAATATTATTAATAT  
AATAATGATGATGATGATGATGATGAAAACCTAAGGATTTTTCAAGAGATCTTCTTTCCAAAACATTCTGGACAGTA  
CCTGATTGTATTTTTTTTTTAAATAAAAGCACAAAGTACTTTTG

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**FIGURE 2756**

TTCAGATGTATGTTTATGTTTCTGACCTTGCGCTACCCAGTGCAGGCTCCAAACAGGCATGCGAGGTGCCTTTG  
GAAAGCCCCAGGGCACTGTGACCAGGGTTCACATTGGCCAAGTTATCATGTCCATCCACACCAAGCTGCAGAACA  
AGGAGCATGTAATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCTGGCCACCAGAAGATCCGCATCTCAAAGA  
AGTGGGGCTTCACCAAGTTCAATGTTGATGAATTTGAAGACATGGTGGCTGAGAAGCAGCTCATCCCTGATGGCT  
GTGGGGTCAAGTACATCCCCAGTCGTGGCCCTCTGGACAAGTGGCGGGCCCTGCACTCATGAGGGCTTCCACTGT  
GCTGCCCCCTCTTAATACTCACCAATAAATTCTACTTCCTGTCC

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**FIGURE 2757**

TCCCTTCAGCCGCCATCATGATTATCTACCAGGACCTCATCAGTCACAATGAGATGTTCTCCGACATCTAGAAGA  
TCTGGGAGATTGTGGACGGGCTGTGCTGGGAGGTGGTGGGAAAAATGGTCAGTAGGACAGAAGGTAACATTGATG  
ACTCGCTCATTGGTGAAATGTCTCCGCTGAAGGCCCGAGGGTGAAGGTACCGAAAGCACAGTAATCACTGCTG  
TCGATGTTGTTCATGAACCATCACCTGCAGGAAACAAGTTTCACAAAAGAAGCCCACAAGAAGTACATCAAAGATT  
ACATGAAATCAATCAAAGGCAAACTTGAAGAAGTGAAGACCAGAAAGAGTAAAACCTTTTATGACAGGGGCTGCAG  
AACAAATCAAGCACATCCTTGCTAATTTCAAAAAGTACCATTTCTTTATTGGTGAAAACATGAATCCAGATGGCA  
TGGTTGCTCTACTGGACTACGGTGAGGATGGTGTGACCCCATATATGATTTTCTTTAGGGATGGTTTAGAAACGG  
AAAAATGTTAACAATTTGGCAATTAGTTTGGATCTATTACCTGTCATCATAACTCGCTTCTAATTGTCATCCAC  
ACAACACCAGGACCTAAGACAAATGGGACTAATATCATCTTGAGCTCTTCATTTATTTTACCATAATTTATTCG  
GAGTGGAGGCATTGTTTTTAAGAAAAACATGTCATGTAGGTGTCTAAAAATAAAATGCATTTTAACTCATTGA  
GAGAATACCTTTTCGTTTAATGCATATTTAACTAAATTCATCCTGTTGTGTTTCTGGAGAAGCTACAGCCTGGT  
CATAAGCTACTACTAGAAAGAGTAAGACTCATCAATTAAGTCTACAGTGGAAGTACTTCTGGGACTGGAATAT  
ACAAAAAAATCAAAGGTTTTGATTGTGTGTGCAATAAAGGGAAAGACCATGTTTCATAGCAGTGCCAACATCTG  
AAGTGGAGCTTTACGCATTTTCATCACCTACAATGGAATTAGTTAACTGGAAGAGATTACCAAGAGAATAAAAAGA  
GACGAATTCAGCTGGAAAAAAAAA

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**FIGURE 2758**

MVSRTEGNIDDSLIGGNVSAEGPEGEGTESTVITAVDVVMNHLQETSFTKEAHKKYIKDYMKSIGKLEELRPE  
RVKPFMTGAAEQIKHILANFKNYHFFIGENMNPDMVALLDYGEDGVTPYMIFFRDGLETEKC

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**FIGURE 2759A**

AGGTTGAAGAACTTAACTCTGAAATTGAAAAGCTCAGTGCTGCCTTTGCTAAAGCCAGAGAGGCCCTACAGAAAG  
CACAGACCCAGGAATTTAGGGGTCTGAAGACTATGAGACTGCTCTATCAGGAAAGGAAGCCCTTTCGGCTGCGC  
TGCGCTCACAAAACCTCACCAAGAGTACAGAGAACCACAGACTGCGTAGAAGCATTAAAGAAGTACCCAGGAGC  
TGAGTGACTTGACAGCAGGAGAGGGAGAGACTGGAGAAGGACCTGGAGGAAGCCCATCGAGAGAAGAGCAAAGGAG  
ACTGCACCATCCGTGATCTTAGAAATGAAGTTGAAAAATTACGCAATGAAGTGAATGAAAGAGAGAAAGCAATGG  
AAAATCGTTACAAGAGTCTTCTGAGTGAAAGCAATAAAAAATTGCACAATCAAGAGCAAGTGATCAAACATCTAA  
CAGAAAGTACCAATCAGAAGGACGTGTTGCTTCAGAAATTCATGAAAAAGATTGGAAGTAATACAGCAGAACT  
GCTATTTAATGGCTGCAGAGGATCTTGAGCTCAGGAGTGAAGGCTTAATAACAGAAAAGTGCTCTTCTCAACAGC  
CACCAGGCAGCAAAACCATCTTCTCTAAGGAAAAGAAACAATCATCAGACTATGAAGAGCTGATTAGGTCTTAA  
AGAAAGAGCAGGACATCTATACCATCTGGTCAAATCTCTGCAGGAATCAGACAGTATCAACAACCTGCAGGCTG  
AGTTAAACAAGATTTTTGCCCTGCGGAAGCAACTGGAGCAGGATGTGCTTTTCATATCAGAATTTGCGGAAGACCT  
TGGAGGAGCAGATCAGCGAAATTCGGAGGCGGGAAGAAGAATCATTTTCACTTTATAGTGATCAAACATCTTATC  
TAAGTATTTGCCCTGAAGAAAACAATCGGTTTCAAGTGAACATTTTCTCAAGAAAGAACTTAAGAAAAAGGTCA  
GTGACCTTATACAGCTAGTGAAGGAGCTGTATACAGACAACCAGCACCTGAAGAAAACCATTTTTGATCTCTCCT  
GCATGGGTTTCCAGGGAATGGGTTTCCAGATAGACTTGCGTCTACAGAACAACAGAGCTTCTGGCTAGCAAGG  
AGGACGAGGACACGATCAAAATGGGGAGGATGACGAGATTAATTCCTGAGTGACCAGCATTTCAGCAGAGTA  
ATGAGATTATGAAAGACCTTTCCAAAGGAGGCTGCAAAATGGTACTTAAGGCACACGGAGTCTAAGATTTTCAG  
ATTGTGATGGGGCCACGCACCTGGCTGCCTAGAAGAAGGTGCATTATAAACCTGCTTGCCCTTTGTTCATG  
AGAAGGCCACATTATTACTGGAATCCAGGCCAGACCTTCTGAAAGTGGTACGGGAACCTGCTTCTGGGACAACTAT  
TCTTGACAGAGCAGGAAGTTTCTGGAGAACACCTTGATGGTAAAACCTGAGAAGACACCTAAGCAAAAAGGTGAAC  
TTGTACATTTTGTCCAAACCAACTCATTTTCCAAGCCACATGATGAAGTGAAGTTGTCTTGTGAGGCCAGCTAG  
TAAAGGCAGGCGAAGTGCCCAAGGTAGGACTGAAAGATGCCTCAGTGCAGACTGTGGCCACGGAGGGCGACCTGC  
TGAGATTCAAGCATGAAGCAACAAGAGAGGCTTGGGAAGAGAAACCGATCAACACTGCACTCAGCGCAGAGCATC  
GGCCAGAGAACCTGCACGGGGTGCTGGGTGGCAGGCTGCCCTCCTTTCCCTCCCTGGTATTACCAACAGAGAGG  
CTAAGAAGTCCCGCTTGCCAATCTTAATAAAACCATCCCGGTATTAGGAAATATGTATCGTCTCCCTGCCACCC  
AGGAGGTGGTGACGCAGCTGCAGAGCCAGATCTTGGAGCTGCAGGGGGAGCTGAAGGAGTTTAAACTTGTAAATA  
AGCAACTTCACCAAAAGTTAATTCTGGCTGAAGCAGTGATGGAGGGGAGGCCAACGCCCGACAAAACGTTGCTGA  
ATGCTCAGCCCCCTGTGGGAGCAGCCTACCAGGACAGCCCAGGAGAGCAGAAAGGAATTAACACCATCTTCTG  
TCTGGAGAGACAAGGAAATGGACAGTGATCAGCAAAGAAGCTACGAGATTGACTCTGAGATTTGCCACCTGATG  
ACCTTGCCAGCTTGCCATCATGCAAAGAAAATCCTGAAGATGTTCTGAGCCCAACTTCAGTAGCTACTTACCTGA  
GTTCCAAGAGTCAGCCTTCTGCTAAAGTCAGTGTGATGGGGACTGATCAGTCAGAGAGCATTAAATACCTCAAATG  
AGACAGAATACTTAAACAGAAAATCCATGACTTGGAACTGAGCTGGAAGGCTACCAGAATTTCAATTTTCAGC  
TTCAAAGCACTCCAGTGCACTGAGGCCATAATTACAGTTTTGTGTGGGACAGAAGGGGGCCAGGATGGCTTGA  
GCAAGCCCAAGAATGGTTCTGATGGGGAAGAAATGACCTTTTCAAGTTTGACCAAGTGCGATACGTGAAACAG  
TGAAAATCCTCGGTCCGCTGGCCCCAGAGATGATTGACAGCAGGGTGCTGGAGAACCTCAACAGCAGCTGGAGG  
AACAGGAATACAAGCTGCAGAAGGAGCAGAAATTTGAACATGCAACTTTTTCAGTGAGATCCATAATCTGCAGAATA  
AGTTCAGAGATCTCTACCTCCAGATACGATTATTAGTTTCAGTCCCAAGCCAGGGAGCTCTCCCTTCAACGGC  
AGCAGATTAAGGATGGCCATGGCATCTGTGTCATCTCCGTCACACATGAACACCATGATTAAGGCATTTGAGG  
AGTTGCTGCAGGCCAGTGATGTGGATTACTGTGTGGCCGAGGGTTTCCAGGAACAGCTGAATCAATGTGCTGAGC  
TGCTGGAGAAATTGGAAGAGCTATTTCTCAACGGAAAATCAGTTGGAGTGGAAATGAACACCCAGAATGAAGTGA  
TGGAGAGGATTGAGGAAGACAACCTAACCTACCAACATCTTCTGCCTGAATCTCCTGAGCCTTCAGCCTCTCATG  
CGCTCTCTGATTATGAAACATCTGAAAAGTCTTCTTCTCAGGAGACCAGAAGCAAGATAATGAGACAGAGAAGA  
CTTCAGTTATGGTGAACAGTTTTTCTCAAGACTTACTAATGGAAACATACAGGAAATTCGAACCTTTGAGAAAGC  
GTTTGAAGAATCTATTAAACAAATGAGAAGCTACGGAAACAGTTGGAACGGCAAGGATCTGAATTTGTTCAAG  
GTTCTACAAGCATTTTTGCTTCTGGTTTCAGAGCTTCATAGTTCTCTAACATCAGAAATTCATTTCTTGAGGAAGC  
AGAACCAGGCCCTCAATGCAATGCTCATTAAAGGATCCAGAGATAAACAGAAGGAGAATGACAAATTACGAGAGT  
CCCTCTCCAGGAAGACCGTGAGCCTGGAGCACCTTCAGCGGGAGTATGCCAGCGTGAAGGAAGAAAATGAAAGGC  
TGCAGAAAGAAGGCAGCGAGAAGGAGAGACACAACCAGCAGCTGATCCAGGAGGTCCGCTGCAGCGGCCAGGAGC

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**FIGURE 2759B**

TGAGCAGGGTGCAGGAGGAGGTGAAGTTGAGGCAGCAGCTGCTCTCACAGAATGACAAGCTATTGCAGTCTCTCC  
GAGTGGAGCTGAAGGCGTATGAGAAGCTGGATGAAGAGCACAGGAGACTGAGAGAGGCGTCGGGAGAAGGCTGGA  
AGGGGCAGGATCCTTTTCAGGGACCTGCACAGCCTCCTGATGGAGATCCAGGCTCTGCGCTTGCAACTAGAAAGGA  
GCATCGAAACCAGCAGCACTCTGCAGAGCAGGCTCAAGGAACAGCTGGCAAGGGGGGCAGAGAAGGCACAGGAAG  
GAGCCCTCACTCTGGCTGTCCAAGCCGTGTCCATCCCTGAGGTGCCCTTCAGCCTGACAAACACGATGGTGACA  
AATATCCCATGGAAAGTGATAATTCAATTTGATCTGTTTGATTCTCCAGGCAGTGACACCAAATCAGTTTCAG  
AGACTCCTCCACTCTCTGGGAATGACACGGACTCCCTCTCTGCGACAGTGGCAGTTCGGCAACTAGCACTCCGT  
GTGTGTCCCGCTGGTCACTGGCCACCACCTGTGGGCCAGCAAGAATGGCCGCCATGTCTGGGCCTGATTGAGG  
ACTATGAGGCCCTGCTCAAACAGATCAGCCAGGGACAGAGGCTCCTTGCTGAAATGGACATTCAAACCCAAGAGG  
CTCCAGCTCCACAAGTCAAGAGCTGGGAACAAAGGGTCCACCCAGCACCCTGAGCAAGTTTGTGAGCAGTG  
TGAGCACGGCCAAGCTGACCCTGGAAGAGGCCTACAGGCGGCTGAAGCTTCTCTGGAGAGTCTCACTCCCGGAGG  
ATGGCCAGTGCCCCCTTCACTGTGAGCAGATTGGAGAAATGAAGGCAGAGGTCACCAAACACATAAAAAATTGT  
TTGAACAAGAAAAGAAGTTGCAAAACACCATGAAGCTTTTGCAGCTGAGCAAGCGCCAGGAAAAAGTCATCTTTG  
ATCAATTGGTTCGTAACCCACAAAATCCTTCGGAAGGCCAGAGGAAACCTGGAGCTTAGGCCTGGGGGAGCCCATC  
CAGGAACATGCAGTCCCAGCAGACCAGGCTCCTGAGAAGAACTTTAGCCAATAAAGCTTGTGCTTCCCCCACC  
AGCTCACGCTGTCTCTTTGTTCCAAGTGTGGTTCTATTTATTGAGGAAGAAAGAGCTGTCTGGCCAAAGGAAAT  
CTATTTTTTCCCTTCATGTTTTCTCTGAAAGTTGGCTTGAGAGTTGTTGTCAGAAAGGTGCAGGTGCTCCACA  
AACGGGTGGTAAAAAGGCCTCGAGCTCTTGGATGTTGTATTTAGATCAGGGGCAGGCACCGGAGTTGAGGCTGT  
GCGCCTTGGTGGGCTTCACGTCTTCCCCTGGATTGCTTAGTACTCAGCCAGTGCCACAGTTTGAAGATTCTCAT  
TAAATGATTCAATTTCAATTCACCTTG

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**FIGURE 2760**

GGTGTGTGCGGAACATGGCGGAGCGCGGCAGGAAGCGGCCGTGCGGCCCGGGTGAACACGGCCAAAGGATTGAGT  
GGCGAAAATGGAAGCAACAGAAGAAAGAGGAGAAAAAAATGGAAGGATCTCAAGCTGATGAAAAAACTGGAGC  
GGCAGCGGGCACAGGAGGAACAGGCAAAGCGCCTGGAAGAGGAGGAGGCAGCGGCAGAGAAGGAGGACCGCGGGC  
GGCCCTACACACTGAGCGTAGCCCTGCCGGGCTCCATCCTGGACAATGCTCAGTCGCCGGAGCTTCGCACCTACT  
TGGCCGGTCAGATTGCCAGAGCCTGTGCCATCTTCTGTGTGGATGAGATCGTGGTGTGTTGATGAGGAGGGCCAGG  
ATGCCAAGACTGTGGAGGGGGAATTCACAGGAGTTGGGAAGAAGGGGCAGGCGTGCGTACAGCTGGCCCCGATCC  
TGCAGTACCTGGAGTGTCCACAGTACCTGAGGAAGGCGTTCTTCCCCAAGCACCAGGATCTACAGTTTGCAGGGC  
TCCTGAACCCCTGGACAGCCCCACCACATGCGTCAGGATGAGGAATCCGAGTTCCGAGAGGGCATCGTGGTGG  
ATCGGCCCCACCGGCCAGGCCACGGCTCCTTTGTCAACTGTGGCATGAAAAAGGAGGTGAAGATTGACAAGAACC  
TGGAGCCCGGGCTTCGGGTGACTGTGCGACTGAACCAGCAGCAGCACCAGACTGCAAGACCTACCATGGCAAAG  
TGGTATCATCGCAGGACCCTCGCACCAAAGCTGGTCTCTACTGGGGCTACACCGTCCGACTGGCTTCCTGCCTCA  
GTGCTGTGTTTGCTGAGGCCCCCTTCCAAGATGGGTATGACCTGACCATCGGGACGTCAGAGCGCGGCTCAGATG  
TGGCCTCTGCCCAGCTTCCCAACTTCAGGCATGCTCTTGTGGTGTTCGGGGGCTCCAGGGTCTGGAAGCTGGAG  
CGGATGCTGACCCCAACCTGGAGGTGGCTGAACCCAGTGTCTCTTTGACCTGTACGTCAATACCTGTCTCTGGCC  
AGGGTAGCCGTACCATCCGCACGGAGGAAGCCATCTCATCTCCCTGGCCGCCCTGCAGCCTGGCCTCATCCAGG  
CGGGTGCCCGGCACACCTGAAAGTTCTAAGGGGCCGAGGACATCAGTGAAGCAGCAGTGAACCCAGGGGCTCTGC  
AGGTCACTTGGGACGGACGCCACCAGACTTGTCTCC

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**FIGURE 2761**

GGCACGAGGCTGGGTTCCGAGGCCCAAGCCCTTGGCAGTGTTTGTGAGTGGAAGGGAGGTCACGCTATCGTCCGC  
GGCCCCAGCAGCCCTGTGCCCTCGTTGGATCCCGCGACGCGGCTCCTTTAAGAGCCTCGCGGGTCGCCCGCCGCT  
AGGTCGCTCCCCGGCCATCGGGCGCTGCGGGCCGGCCTGACCCTGGCGTCGGGCGCGGGGCTGGGTGCGGTCTGT  
CGAGGGCTGGCGGCGGCGGGAGGACGCGCGGGCGGCGCTGGGACTGCTGGGCGGGCTGCCCGTGTGCTGCCCGT  
GGCGGCGGCAGCCGAGTTGCCCCCTGTGCCCGGGGACCCGCGGCCCGGGCGAGTTGGCCAAGTACGGGCTGCC  
GGGGCTGGCGCAGCTCAAGAGCCGCGAGTCGTACGTGCTGTGCTACGACCCGCGCACCCGCGGCGGCTCTGGGT  
GGTGGAGCAGCTGCGACCCGAGCGTCTCCGCGGCGACGGCGACCGGCGGAGTGCGACTTCCGCGAGGACGACTC  
GGTGACGCGTACCACCGTGCCACCAACGCCGACTACCGCGGCGAGTGGCTTCGACCGCGGTACCTGGCCGCCGC  
CGCCAACCACCGCTGGAGCCAGAAGGCCATGGACGACACGTTCTACCTGAGCAAAGTCGCGCCCCAGGTGCCCA  
CCTCAACCAGAATGCCTGGAACAACCTGGAGAAATATAGCCGCGAGTTGACCCGCGAGCTACCAAAACGTCTATGT  
CTGCACAGGGCCACTCTTCCTGCCCAGGACAGAGGCTGATGGGAAATCCTACGTAAAGTACCAGGTCAATCGCAA  
GAACCACGTGGCAGTGCCACACACTTCTCAAGGTGCTGATCCTGGAGGCAGCAGGTGGGCAAATTGAGCTCCG  
CACCTACGTGATGCCAACGCACCTGTGGATGAGGCCATCCCACTGGAGCGCTTCCTGGTGCCATCGAGAGCAT  
TGAGCGGGCTTCGGGGCTGCTCTTTGTGCCAAACATCCTGGCGGGGCGAGGAGCCTCAAGGCCATCACGGCGGG  
CAGTAAGTCAGGGGTGGAGCCCAGTGAGACTGTGGGTGTGTGCAGGCCGGGAGTATTAAAGGTGGTGATTTTGG  
AAAAAAA



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**FIGURE 2762**

MRALRAGLTLASGAGLGAVVEGWRRRRREDARAALGLLGRLPVLPVAAAAELPPVPGGPRGPGELAKYGLPGLAQL  
KSRESYVLCYDPRTRGALWVVEQLRPERLRGDGDRRECDFREDDSVHAYHRATNADYRGSGFDRGHLAAAANHRW  
SQKAMDDTFYLSKVAPQVPHLNQNAWNNLEKYSRSLTRSYQNVYVCTGPLFLPRTADGKSYVKYQVIGKNHVAV  
PTHFFKVLILEAAGGQIELRTYVMPNAPVDEAIPLERFLVPIESIERASGLLFVPNILARAGSLKAITAGSK

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**FIGURE 2763**

GGCACGAGGCCGGGCCGAGGCGATGGCGCCCTGGGCGCTCCTCAGCCCTGGGGTCCCTGGTGCGGACCGGGCACAC  
CGTGCTGACCTGGGGAATCACGCTGGTGCTCTTCTGCACGATACCGAGCTGCGGCAATGGGAGGAGCAGGGGGA  
GCTGCTCCTGCCCCCTCACCTTCTGCTCCTGGTGCTGGGCTCCCTGCTGCTCTACCTCGCTGTGTCACTCATGGA  
CCCTGGCTACGTGAATGTGCAGCCCCAGCCTCAGGAGGAGCTCAAAGAGGAGCAGACAGCCATGGTTCCCTCCAGC  
CATCCCTCTTCGGCGCTGCAGATACTGCCTGGTGCTGCAGCCCTGAGGGCTCGGCACTGCCGTGAGTGCCGCCG  
TTGCGTCCGCCCTACGACCACCACTGCCCCCTGGATGGAGAACTGTGTGGGAGAGCGCAACCACCACTCTTTGT  
GGTCTACCTGGCGCTGCAGCTGGTGGTGCTTCTGTGGGGCTGTACCTGGCATGGTCAGGCCTCCGGTTCTTCCA  
GCCCTGGGGTCTGTGTTGCGGTCCAGCGGGCTCCTGTTGCCACCTTCTGCTGCTGTCCCTCTTCTCGTTGGT  
GGCCAGCCTGCTCCTCGTCTCGCACCTCTACCTGGTGGCCAGCAACACCACCACCTGGGAATTCATCTCCTCACA  
CCGCATCGCCTATCTCCGCCAGCGCCCCAGCAACCCCTTCGACCGAGGCCTGACCCGCAACCTGGCCCACTTCTT  
CTGTGGATGGCCCTCAGGGTCTGGGAGACCTCTGGGCTGAGGAGGAGGAAGAGGGCAGCAGCCCAGCTGTTTA  
GGGTTGCTGGAGGCCGGGCTACCGTCTTGTGCCTGAAAACACGGGGCCTGTCCCAGCTGGGGTGAGCGCTCAG  
AGGGCCTGGGGCCCTCACTCCTGCCCACGCCTCCAGACCCAGAACGGAGCTTCAAGTCAGACAGATCCCTGCC  
TTGGTGGGCAGTTCTGCCTTCCAAGGAAGAAGGGGAAGAAAAGGACCTGTGGGTGGCTCAGGCCCAAGCAGACCC  
CGGGCTCCACCCAGCCCCGCCAGGCTGCTGCCAGTGCACACTTTTACAAATTTAATATAAAGCAAGTCCAGTC  
TTAAAAAGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2764**

MAPWALLSPGVLVRTGHTVLTWGITLVFLHDTLQWEEQGEELLPLTFLLVLGSLLLYLAVSLMDPGYVNVQ  
PQPQEELKEEQTAMVPPAIPLRRCRYCLVLQPLRARHCRECRRCVRRYDHHCPWMENCVGERNHPLFVVYLALQL  
VVLLWGLYLAWSGLRFFQPWGLWLRSSGLLFATFLLSLFSLVASLLLVSHLYLVASNTTWEFISSHRIAYLRQ  
RPSNPFDRGLTRNLAHFFCGWPSGSWETLWAEIEEEEGSSPAV

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**FIGURE 2765**

CATGTCGGCGCCGGCGGCCAAAGTCAGTAAAAAGGAGCTCAACTCCAACCACGACGGGGCCGACGAGACCTCAGA  
AAAAGAACAGCAAGAAGCGATTGAACACATTGATGAAGTACAAAATGAAATAGACAGACTTAATGAACAAGCCAG  
TGAGGAGATTTTGAAGTAGAACAGAAATATAACAACTCCGCCAACCATTTTTTCAGAAGAGGTCAGAATTGAT  
CGCCAAAATCCCAAATTTTGGGTAACAACATTTGTCAACCATCCACAAGTGTCTGCACTGCTTGGGGAGGAAGA  
TGAAGAGGCACTGCATTATTTGACCAGAGTTGAAGTGACAGAATTTGAAGATATTAAATCAGGTTACAGAATAGA  
TTTTTATTTTGATGAAAATCCTTACTTTGAAAATAAAGTTCTCTCCAAAGAATTTTCATCTGAATGAGAGTGGTGA  
TCCATCTTCGAAGTCCACCGAAATCAAATGGAAATCTGGAAGGATTTGACGAAACGTTTCGAGTCAAACGCAGAA  
TAAAGCCAGCAGGAAGAGGCAGCATGAGGAACCAGAGAGCTTCTTTACCTGGTTTACTGACCATTCTGATGCAGG  
TGCTGATGAGTTAGGAGAGGTCATCAAAGATGATATTTGGCCAAACCCATTACAGTACTACTTGGTTCCCGATAT  
GGATGATGAAGAAGGAGAAGGAGAAGAAGATGATGATGATGAAGAGGAGGAAGGATTAGAAGATATTGACGA  
AGAAGGGGATGAGGATGAAGGTGAAGAAGATGAAGATGATGAAGGGGAGGAAGGAGAGGAGGATGAAGGAGA  
AGATGACTAAATAGAACACTGATGGATTCCAACCTTCCTTTTTTAAATTTTCTCCAGTCCCTGGGAGCAAGTTG  
CAGTCTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTCTTGTGCTCAGTCGCCCTGTCTTGAGGTCTCTTTTCTCTAC  
TCCATGGTTCTCAATTTATTTGGGGGAAATACCTTGAGCAGAATACAATGGGAAAAGAGTCTCTACCCCTTTCT  
GTTTGAAGTTCATTTTTATCCCTTCCTGTCTGAACAAAACCTGTATGGAATCAACACCACCGAGCTCTGTGGGAA  
AAAAGAAAAACCTGCTCCCTTCGCTCTGCTGGAAGCTGGAGGGTGCTAGGCCCTGTGTAGTAGTGATAGAATT  
CTAGCTTTTTTCTCTCTCTGTATATTGGGCTCAGAGAGTACACTGTGTCTCTATGTGAATATGGACAGTTA  
GCATTTACCAACATGTATCTGTCTACTTTCTCTTGTTTAAAAAAGAAAAAAAACCTAAAAAATGGGGTTATA  
GAAGGTCAGCAAAGGGTGGGTTTGAGATGTTGGGTGGGTTAAGTGGGCATTTTGACAACATGGCTTCTCCTTTG  
GCATGTTTAATTGTGATATTTGACAGACATCCTTGCAGTTTAAGATGACACTTTTAAAAATAAATTCTCTCCTAAT  
GATGACTTGAGCCCTGCCACTCAATGGGAGAAATCAGCAGAACCTGTAGGATCTTATTTGGAATTGACATTCTCTA  
TTGTAATTTGTTTCTGTTTATTTTTTAAATTTCTTTTTGTTTCACTGGAAAGGAAAGATGATGCTCAGTTTTAA  
ACGTTAAAGTGTAAGTTGCTTTGTTACAATAAACTAAATGTGTACACAAAGGATTTGATGCTTTTCTCTCA  
GCATAGGTATGCTTACTATGACCTTCCAAGTTTGACTTGTATAACATCACTGTCAAACCTTTGTACCCCTAACTTC  
GTATTTTTTGATACGCACCTTTCAGGATGACCTCAGGGCTATGTGGATTGAGTAATGGGATTTGAATCAATGTAT  
TAATATCTCCATAGCTGGGAAACGTGGGTTCAATTTGCCATTGGTTTCTGAAAGTATTCACATCATTGGGATAC  
CAGATAGCTCAATACTCTCTGAGTACATTGTGCCCTTGATTTTTATCTCCAAGTGGCAGTTTTTAAATTTGGCCT  
TTTACCTGGATATAAATTAATTGTGCCTGCCACCACCATCCAACAGACCTGGTGCTCTAATGCCAAGTTATACAC  
GGGACAGTTGCTGGCATGTCTTCATTGGCTATATAAAATGTGGCCAAGAAGATAGGCTCTCAGTAAGAAGTCTGA  
TGGTGAGCAGTAACTGTCCCTGCTTTCTGGTATAAAGCTCTCAAATGTGACCATGTGAATCTGGGTGGGATAATG  
GACTCAGCTCTGTCTGCTCAATGCCATTGTGCAGAGAAGCACCCCTAATGCATAAGCTTTTTAATGCTGTAAAATA  
TAGTCGCTGAAATTAATGCCACTTTTTTCAAGGTTGAATTAATGGACAGTCTGGTGAACCTCAAAGCTTTTGA  
TGTATAAACTTGATAAATGGAATATTCCATCAATAGGCAAAAGTGAACAACCTATCTAGATGGATAGTATGT  
AATTTCTGCACAGGTCTCTGTTTAGTAAATACATCACTGTATACCGATCAGGAATCTTGCTCCAATAAAGGAACA  
TAAAGATTT

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**FIGURE 2766**

GGCGGCGTAGGGGCGGAGGTGCGGCCTGAGTGCGTCCGCACGAGAGGGCGGAACCGTCTCCATGGCAACCCGCGC  
GCAGCCGGGGCCACTCAGCCAGGCGGGAAGCGCTGGTGTTCGGGCGCTGGCGACAGTCGGGGTTGCGAGCGGGCC  
GGGGCCGGGGCGGCCAGGGCCGCTGCAGGACGAGACCCTGGGTGTGGCGTCCGTGCCCTCGCAGTGAGGGGCCGT  
CCAGGGCATCCGCTGGGAGACGAAAAGTTGCCAGACGGCCAGCATTGCCACTGCCAGTGCATCCGCCAGGGCCAG  
GAATCATGTGGACGCCCAGGTGCAGACGGAGGCCCCCGTGCCTGTGAGCGTGCAGCCCCCGTCCAGTATGACAT  
ACCCAGGCTCGCAGCCTTTCTTCGGAGAGTGGAGGCCATGGTCATCCGAGAGCTGAACAAGAAATTGGCAGAGCCA  
CGCGTTTGATGGCTTCGAGGTGAACTGGACCGAGCAGCAGCAGATGGTGTCTTGTCTGTATACCCTGGGCTACCC  
GCCAGCCCAAGCGCAGGGTCTGCATGTGACCAGCATCTCCTGGAACCTCCACTGGCTCTGTGGTGGCCTGTGCCTA  
CGGCCGGCTGGACCATGGGGACTGGAGCACGCTTAAGTCCTTCGTGTGTGCCCTGGAACCTGGACCGGCGAGACCT  
GCGTCCCCAGCAGCCGTGCGCCGTGGTGGAGGTCCCCAGCGCTGTCTGTGTCTGGCCTTCCACCCACGCAGCC  
CTCCACGTCGCAGGAGGGCTGTACAGTGGTGGTGGTGGTGGTGGGACCTGAGCCGTCTTGAGGACCCGCTGTCT  
GTGGCGCACAGGCCTGACGGATGACACCCACACAGACCCTGTGTCCCAGGTGGTGTGGCTGCCCGAGCCTGGGCA  
CAGCCACCGCTTCCAGGTGCTGAGTGTGGCCACCGACGGGAAGGTGCTACTCTGGCAGGGCATCGGGGTAGGCCA  
GCTGCAGCTCACAGAGGGCTTCGCCCTGGTTCATGCAGCAGCTGCCACGGAGCACCAGCTCAAGAAGCATCCCCG  
CGGGGAGACCGAGGTGGGCGCCACGGCAGTGGCCTTCTCCAGCTTTGACCCTAGGCTGTTCATTCTGGGCACGGA  
AGGCGGCTTCCCGCTCAAGTGTTCCTGGCAGCTGGAGAGGCAGCCCTCACGCGGATGCCAGCTCCGTGCCCTT  
GCGGGCCCCAGCACAGTTTACCTTCTCCCCCAGGGCGGTCCCATCTACTCTGTGAGCTGTTCCCCCTTCCACAG  
GAATCTCTTCTGAGCGCTGGGACTGACGGGCATGTCCACCTGTACTCCATGCTGCAGGCCCCCTCCCTTGACTTC  
GCTGCAGCTCTCCCTCAAGTATCTGTTTGCTGTGCGCTGGTCCCCAGTGCGGCCCTTGGTTTTTGCAGCTGCCTC  
TGGGAAAGGTGACGTGCAGCTGTTTGATCTCCAGAAAAGCTCCCAGAAACCCACAGTTTTGATCAAGCAAACCCA  
GGATGAAAGCCCTGTCTACTGTCTGGAGTTCAACAGCCAGCAGACTCAGCTCTTGGCTGCGGGCGATGCCCAGGG  
CACAGTGAAGGTGTGGCAGCTGAGCACAGAGTTCACGGAACAAGGGCCCCGGGAAGCTGAGGACCTGGACTGCCT  
GGCAGCAGAGGTGGCGGCCTGAGGGGTCCCGGGAGCGGGTGCAAGCCTTCGCTGTGCCGAGCCTTGTGTTTCTG  
ACGCAAGCCAAATGAAGAAAAGCAAAGCTT

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**FIGURE 2767**

ATGCTGCAGGAGTGGCTGGCGGCTGTGGGCGATGACTATGCTGCTGTGGTCTGGAGGCCTGAGGGCGAGCCCAGG  
TTCTACCCAGATGAAGAGGGTCCCAAGCACTGGACCAAAGAAAGGCACCAGTTTCTGATGGAGCTGAAGCAGGAA  
GCCCTCACCTTTGCCAGGAAGTGGGGGGCCGACTATATCCTGTTTGCAGACACAGACAACATTCTGACCAACAAT  
CAGACTCTGCGGCTTCTCATGGGGCAGGGGCTTCCAGTGGTGGCCCCAATGCTGGACTCCAGACCTACTACTCC  
AACTTCTGGTGTGGGATCACCCCCCAGGGCTACTACCGCCGCACAGCCGAGTACTTCCCCACCAAGAACC GCCAG  
CGCCGGGGCTGCTTCCGTGTCCCCATGGTCCACTCCACCTTCCTTGTCATCCCTGCGGGCTGAAGGGGCAGACCAG  
CTTGCTTTCTACCCGCCACATCCCAACTACACTTGGCCTTTCGACGACATCATCGTCTTCGCCTATGCCTGCCAG  
GCTGCTGGGGTCTCCGTCCACGTGTGCAATGAGCACC GTTATGGGTACATGAATGTGCCGGTGAAATCCCACCAG  
GGGCTGGAAGACGAGAGGGTCAACTTCATCCACCTGATCTTGGAAGCACTAGTGGACGGCCCCCGCATGCAGGCC  
TCAGCTCATGTGACTCGGCCCTCTAAGAGGGCCAGCAAGATAGGGTTTGACGAGGTCTTTGTTCATCAGCCTGGCT  
CGCAGGCCTGACCGTCGGGAACGCATGCTCGCCTCGCTCTGGGAGATGGAGATCTCTGGGAGGGTGGTGGACGCT  
GTGGATGCTGGATGGCTCAACAGCAGTGCCATCAGGAACCTCGGCGTAGACCTGCTCCCGGGCTACCAGGACCCT  
TACTCGGGCCGCACTCTGACCAAGGGCGAGGTGGGCTGCTTCCTCAGCCATTACTCCATCTGGGAAGAGGTGGTT  
GCCAGGGGCTGGCCCGGGTCTTGTTGTTTGAGGATGACGTGCGCTTTGAGAGCAACTTCAGGGGGCGGCTGGAG  
CGGCTGATGGAGGATGTGGAGGCAGAGAACTGTCTTGGGACCTGATCTACCTTGGACGGAACAGGTGAACCCT  
GAGAAGGAGACGGCCGTGGAGGGGCTGCCGGGCTGGTGGTGGCTGGGTACTCCTACTGGACGCTGGCCTATGCC  
CTGCGTCTGGCGGGTGGCCGCAAGCTGCTGGCCTCACAGCCTCTGCGCCGCATGCTGCCCGTGACGAGTTCCTG  
CCCATCATGTTTCGACCAGCACCCCAACGAGCAGTACAAGGCACACTTCTGGCCACGGGACCTGGTGGCCTTCTCC  
GCCCAGCCCCTGCTCGCTGCCCTACCCACTATGCCGGGGACGCCGAGTGGCTCAGTGACACGGAGACATCCTCT  
CCATGGGATGATGACAGCGGCCGCTCATCAGCTGGAGCGGCTCCCAAAGACCCTGCGCAGCCCCCGCCTGGAC  
CTGACTGGCAGCAGCGGGCACAGCCTCCAACCCAGCCCCGAGATGAGCTCTAG

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**FIGURE 2768**

MLQEWLAAVGDDYAAVVRPEGEPRFYPDEEGPKHWTKERHQFLMELKQEALTFARNWGADYILFADTDNILTNN  
QTLRLLMGQGLPVVAPMLDSQTYYSNFWCGITPQGYRRTAEYFPTKNRQRRGCFRVPMVHSTFLASLRAEGADQ  
LAFYPPHPNYTWPFDDIIVFAYACQAAGVSVHVCNEHRYGYMNPVKSHQGLEDERVNF IHLILEALVDGPRMQA  
SAHVTRPSKRPSKIGFDEVFVISLARRPDRRERMLASLWEMEISGRVVDAGWLNSSAIRNLGVDLLPGYQDP  
YSGRILTKGEVGCFLSHYSIWEEVVARGLARVLVFEDDVRFESNFRGRLERLMEDVEAEKLSWDLIYLGRKQVNP  
EKETAVEGLPGLVVAGYSYWTLAYALRLAGARKLLASQPLRRMLPVDEF LPIMFDQHPNEQYKAHFWPRDLVAFS  
AQPLLAAPTHYAGDAEWLSDTETSSPWDDDSGRLISWGSQKTLRSPRLDLTGSSGHS LQPQRDEL

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**FIGURE 2769**

GCGAGCTCGGCTTCCTCAACATGGCTGCGCCCTTGTCAGTGGAGGTGGAGTTCGGAGGTGGTGCGGAGCTCCTGT  
TTGACGGTATTAAGAAACATCGAGTCACTTTGCCTGGACAGGAGGAACCCTGGGACATCCGGAACCTGCTCATCT  
GGATCAAGAAGAATTGCTAAAAGAGCGGCCAGAGTTGTTTCATCCAGGGAGACAGCGTGCGGCCAGGAATTCTGG  
TGCTGATTAAACGATGCCGACTGGGAGCTACTGGGTGAGCTGGACTACCAGCTTCAGGACCAGGACAGCGTCCCTCT  
TCATCTCCACTCTGCACGGCGGGCTGAGGGGCCCTTCTCTGGGCCTGGGCACCCCTTAGAGGGGAGAACGAAGCAATC  
AGACATCCCCCTTGGGCCCTGCTTCCAGGTCTCCCTGTCCCCCTTGCCCTGCCTTCTTCCCTGCTCTGTCCCTAAG  
CTCCCTCCAGGCAGGAAAAGAGGCCAGGTGCTAAAAATGAGCCTTTCTCAAGCACGTGAGCAGCGGAAGGCAGA  
CAGGCGCCAGAGCCCAGCACTCCCTTTTCCAGCAGCTGTGGTGGGGGAGGGTTCCCTCCAGTTTGTCAAGAGTT  
GAAGGAGGCTCTGTGGCCAGGTGACCTGGCTGCCTTCCACTCCTTGTACCTCAGTCTAAACATGGAGTGGCCGCT  
GACAAGGCGCTCCAGCCCCAGAGCCAGCGTCTTCATGGGGAAGATGAATGGACCTGAGTAGCTGAAGGAAGGCCC  
CTCCCTACCCAAAGACTGGAGGCTTCTCAGCCTCAATTTCCCTGTCTGTACAGCTGAGGGCTCTGCCTGTCCCC  
ACTGCTATCAGTATGGAACCCAGCTGGGGTCCCCTATTGAGTGCCGACTCCCCCACCGCCAGCAGCTGCTCCT  
CCAGCCACACCCCTCCTGCTCCCCCACCCTAGCCCTTGACCCTGGCTGGCCTGCCCCGCTCCACAGGCCACCA  
GATGGGCTCCTGAGACCTCCCCAGGCTGCTTACAGCTCATTCTGCTGGGGGTAGAGATGAGGGGAGGGAGTAAG  
TTAAACCTTGGACTAGCAAGTAGAAGCCTGGGGGGATGCGTGTGCCTCAGTTTCCTCCTCCAACTGAATATAG  
TGGCTGAAAACCTGGGGAGATACTTGATGGCGGAATGTCCGTTTTCTCTCCCTTCCCACCTCCTGCAGGAAGCAG  
GACGGGGCAGGCAGCACCTGGTAGGCACAGTGCTTTGCCCCCTCCCTTCCCTTCTGGAAGTCTTGGGGCCTC  
AGTGCTTGCAACAGCCGGCCTTGGGCAAATAAAAGACTAGGTTGTTTACT



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**FIGURE 2770**

MAAPLSVEVEFGGGAELLFDGIKKHRVILPGQEEPWDIRNLLIWIKKNLLKERPELFIQGDSVRPGILVLINDAD  
WELLGELDYQLQDQDSVLFISTLHGG

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FIGURE 2771

CAGCAGCAGCAGCAGCTCCAGCAACAGCAGCAGCAGCTCCAGCAGTTACAGCAGCAGCAGCTCCAGCAGCAGCAA  
TTGCAGCAGCAGCAGTTACTGCAGCTCCAGCAGCTGCTCCAGCAGTCCCCACCACAGGCCCGGTGCCCATGGCT  
GTCAGCCGGGGGCTCCCCCGCAGCAGCCACAGCAGCCGCTTCTGAATCTCCAGGGCACCAACTCAGCCTCCCTC  
CTCAACGGCTCCATGCTGCAGAGAGCTTTGCTTTTACAGCAGTTGCAAGGACTGGACCAGTTTGCAATGCCACCA  
GCCACGTATGACACTGCCGGTCTCACCATGCCACAGCAACACTGGGTAACCTCCGAGGCTATGGCATGGCATCC  
CCAGGCCCTCGCAGCCCCCAGCCTCACACCCCCACAACACTGGCCACTCCAAATTTGCAACAGTTCTTTCCCCAGGCC  
ACTCGCCAGTCCCTTGTGGGACCTCCTCCTGTGGGGTCCCCATGAACCCTTCCAGTTCAACCTTTCAGGACGG  
AACCCCCAGAAACAGGCCCGGACCTCCTCCTTACCACCCCCAATCGAAAGGATTCTTCTTCTCAGACAATGCCT  
GTGGAAGACAAGTCAGACCCCCCAGAGGGTCTGAGGAAGCCGCAGAGCCCCGGATGGACACACCAGAAGACCA  
GATTTACCGCCCTGCCAGAGGACATCGCCAAGGAAAAACGCACTCCAGCACCTGAGCCTGAGCCTTGTGAGGCG  
TCCGAGCTGCCAGAAAGAGATTGAGGAGCTCAGAAGAGCCACAGAGAAGGAACCTCCAGGGCAGTTACAGGTG  
AAGGCCCAGCCGAGGCCCGGATGACAGTACCGAAACAGACACAGACACCAGACCTGCTGCCTGAGGCCCTGGAA  
GCCAAGTGCTGCCACGATTCCAGCCACGGGTCTGCAGGTCCAGGCCAGGTGCAGTCACAGACTCAGCCGCGG  
ATACCATCCACAGACACCCAGGTGCAGCCAAAGCTGCAGAAGCAGGCGCAAACACAGACCTCTCCAGAGCACTTA  
GTGCTGCAACAGAAGCAGGTGCAGCCACAGCTGCAGCAGGAGGCAGAGCCACAGAAGCAGGTGCAGCCACAGGTA  
CAGCCACAGGCACATTCACAGGGCCCAAGGCAGGTGCAGCTGCAGCAGGAGGCAGAGCCGCTGAAGCAGGTGCAG  
CCACAGGTGCAGCCCCAGGCACATTACAGCCCCCAAGGCAGGTGCAGCTGCAGCTGCAGAAGCAGGTCCAGACA  
CAGACATATCCACAGGTCCACACACAGGCACAGCCAAGCGTCCAGCCACAGGAGCATCCTCCAGCGCAGGTGTCA  
GTACAGCCACCAGAGCAGACCCATGAGCAGCCTCACACCCAGCCGCAAGTGTCTGCTGGCTCCAGAGCAAACA  
CCAGTTGTGGTTTATGTCTGCGGGCTGGAGATGCCACCTGATGCAGTAGAAGCTGGTGGAGGCATGGAAAAGACC  
TTGCCAGAGCCTGTGGGCACCCAAGTCAGCATGGAAGAGATTGAGAATGAGTCGGCCTGTGGCCTAGATGTGGGA  
GAATGTGAAAACAGAGCGAGAGAGATGCCAGGGGTATGGGGCGCCGGGGCTCCCTGAAGGTCACCATTCTGCAG  
AGCAGTGACAGCCGGGCCCTTTAGCACTGTACCCCTGACACCTGTCCCCCGCCCCAGTGAAGTCCGCTCTCCTCCACC  
CCTGCGGCTACCAGCACTCCCTCTAAGCAGGCCCTCCAGTTCTTCTGCTACATCTGCAAGGCCAGCTGCTCCAGC  
CAGCAGGAGTTCAGGACCACATGTCGGAGCCTCAGCACCAGCAGCGGCTAGGGGAGATCCAGCACATGAGCCAA  
GCCTGCCTCCTGTCCCTGCTGCCCGTGCCCGGGACGTCTGGAGACAGAGGATGAGGAGCCTCCACCAAGGCGC  
TGGTGCAACACCTGCCAGCTCTACTACATGGGGGACCTGATCCAACACCGCAGGACACAGGACCACAAGATTGCC  
AAACAATCCTTGCGACCTTCTGCACCGTTTGCAACCGCTACTTCAAACCCCTCGCAAGTTTGTGGAGCACGTG  
AAGTCCCAGGGGCATAAGGACAAAGCCAAGGAGCTGAAGTCGCTTGAGAAAGAAATTGCTGGCCAAGATGAGGAC  
CACTTCATTACAGTGGACGCTGTGGGTTGCTTCGAGGGTGATGAAGAAGAGGAAGAGGATGATGAGGATGAAGAA  
GAGATCGAGGTTGAGGAGGAACCTGCAAGCAGGTGAGGTCCAGAGATATATCCAGAGAGGAGTGGAAGGGCTCG  
GAGACCTACAGCCCCAATACTGCATATGGTGTGGACTTCTTGGTGCCCGTGATGGGCTATATCTGCCGCTCTGC  
CACAAGTTCTATCACAGCAACTCAGGGGCACAGCTCTCCCACTGCAAGTCCCTGGGCCACTTTGAGAACCTGCAG  
AAATACAAGGCGGCCAAGAACCCCAAGCCCCACCACCCGACCTGTGAGCCGCGGCTGCCAATCAACGCCCGGAAC  
GCTTTGACAGCCCTGTTACCTCCAGCGGCCGCCACCCCTCCAGCCCAACACCCAGGACAAAACACCCAGCAAG  
GTGACGGCTCGACCTCCAGCCCCACTACCTCGCGCTCAACCCGCTCAAACCTGATAGAGGGACCTCCCT  
GTCCCTGGCCTGCTGGGTCCAGATCTGCTAATGCTTTTTAGGAGTCTGCCTGGAACTTTGACATGGTTTCATGT  
TTTTACTCAAAATCCAATAAAACAAGGTAGTTTGGCTG

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FIGURE 2772

GGCACGAGGGGCGGGCGTTTCGAACTTGGGCGCCGGGCACACGCCCAGTCCCGAGAGCGCTGAGGGTTCCCTTAG  
CGTCGCCCCACCCCGGCCAACCCGCGGGGCGCCAGAGTCCTGGCCCTTTAAACGCCGCGCGTGCCTCGGCGTCT  
TCGTTTCGCGCGCCCGCCCGCGGGCGCCGGGAGCGAACATGGACCCGGCTGCGCGGGTGGTGCGGGCGCTGTGG  
CCTGGTGGGTGCGCCTTGGCCTGGAGGCTGGGAGGCCGCCCCAGCCGCTGCTACCCACGCAGAGCCGGGCTGGC  
TTCGCGGGGGCGGGCGGGCGCCCGAGCCCCGTGGCTGCAGCTCGTAAGGGGAGCCCGGGCTGCTGGGAGCTGCG  
GCGCTGGCCCTGGGGGAGCCCTGGGGCTGTACCACACGGCGCGGTGGCACCTGCGCGCCAGGACCTCCACGCA  
GAGCGCTCAGCCGCGCAGCTCTCCCTGTCCAGCCGCTGCAGCTGACCCTGTACCAGTACAAGACGTGTCCCTTC  
TGCAGCAAGGTCCGAGCCTTCCCTCGACTTCCATGCCCTGCCCTACCAGGTGGTGGAGGTGAACCTGTGCGCAGG  
GCTGAGATCAAGTTCTCTCCTACAGAAAGGTGCCATCCTGGTGGCCCAGGAAGGAGAAAGCTCGCAACAATA  
AATGACTCCTCTGTATCATCAGCGCCCTCAAGACCTACCTGGTGTGCGGGCAGCCCTGGAAGAGATCATCACC  
TACTACCCAGCCATGAAGGCTGTGAACGAGCAGGGCAAGGAGGTGACCGAGTTCGGCAATAAGTACTGGCTCATG  
CTCAACGAGAAGGAGGCCCAGCAAGTGTATGGTGGGAAGGAGGCCAGGACGGAGGAGATGAAGTGGCGGCAGTGG  
GCGGACGACTGGCTGGTGCACCTGATCTCCCCAATGTGTACCGCACGCCACCAGGCTCTGGCGTCTTTGAC  
TACATTGTCCGCGAGGGCAAGTTCGGAGCCGTGGAGGGTGCCGTGGCCAAGTACATGGGTGCAGCGGCCATGTAC  
CTCATCAGCAAGCGACTCAAGAGCAGGCACCGCCTCCAGGACAACGTGCGCGAGGACCTCTATGAGGCTGCTGAC  
AAGTGGGTGGCTGCTGTGGGCAAGGACCGGCCCTTCATGGGGGGCCAGAAGCCGAATCTCGCTGATTGCGGGTG  
TATGGCGTGTGCGTGTGATGGAGGGGCTGGATGCATTGATGACCTGATGCAGCACACGCACATCCAGCCCTGG  
TACCTGCGGGTGGAGAGGGCCATCACCGAGGCCCTCCCAGCGCACTGAATGTCCCCGCGCAGAGCAGAGGGAAGG  
CAGCGGAAGACGCCAGCTGCCAGGGCCTGGGGCCACTGGGCCAGCGCCTGGCGATACTGGTTGGGGGCAGGATCA  
TTCTGCCCCTTGTCCACGCACCCCCACCAGCCCTCTCGCTTCTAACACAGGGCACCTGCTGGGGCTCAGGGATGT  
TAGGGACGAGTTCAGCCCTGCCACTGCCCTGGGGCGACCCCTCCCTGTCCCTGCCTCCCTGCTCTGCCGCCCT  
CTTCTGGACCCCTCAGTGGCTGTCCCATGGCTACATCCTGTGGGTGGGGGCCCTCGACAGGACAGCAGGACGGTT  
TGTTTTCAGTGAATCCCATCCCTGGGTTCCTTGGTTCCCACTCTTCCCAAGCCTCCCGGGACTGGGACATGTT  
TGCAATAAAGGAAAGGTTTGTGGCGCCTGTCATGGCAGGCATCTCATGGAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2773**

MDPAARVVRALWPGGCALAWRLGGRPQPLLPTQSRAGFAGAAGGPPVAAARKGSPRLLGAAALALGGALGLYHT  
ARWHLRAQDLHAERSAAQLSLSSRLQLTLYQYKTCPFCSKVRAFLDFHALPYQVVEVNPVRRAEIKFSSYRKVPI  
LVAQEGESSQQLNDSSVVISALKTYLVSGQPLEEIIITYYPAMKAVNEQGKEVTEFGNKYWLMLNEKEAQQVYGGK  
EARTEEMKWRQWADDWLVLHISPNNVYRTPTEALASFYIVREGKFGAVEGAVAKYMGAAAMYLISKRLKSRHRLQ  
DNVREDLYEAADKWVAAVGKDRPFMGGQKPNLADLAVYGVLVRVMEGLDAFDDLMQHITHIQPWYLRVERAITEASP  
AH

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**FIGURE 2774**

CCCAGCCCTGGAGACAGCAGCCCTAGACTACTGAGGGACAGCGACAGCATGAAGGCTCCGGGTCGGCTCGTGCT  
CATCATCCTGTGCTCCGTGGTCTTCTCTGCCGTCTACATCCTCCTGTGCTGCTGGGCCGGCCTGCCCCCTCTGCCT  
GGCCACCTGCCTGGACCACCACTTCCCCACAGGCTCCAGGCCCACTGTGCCGGGACCCCTGCACTTCAGTGGATA  
TAGCAGTGTGCCAGATGGGAAGCCGCTGGTCCGCGAGCCCTGCCGAGCTGTCCGTGGTGTCCAGCTCCGGCCA  
AATGCTGGGCTCAGGCCTGGGTGCTGAGATCGACAGTGCCGAGTGCGTGTTCGCGATGAACCAGGCGCCACCGT  
GGGCTTTGAGGCGGATGTGGGCCAGCGCAGCACCCCTGCGTGTCTCTCACACACAAGCGTGCCGCTGCTGCTGCG  
CAACTATTACACTACTTCCAGAAGGCCCGAGACACGCTCTACATGGTGTGGGGCCAGGGCAGGCACATGGACCG  
GGTGTCTCGGCGGCCGCACCTACCGCACGCTGCTGCAGCTCACCAGGATGTACCCCGGCCTGCAGGTGTACACCTT  
CACGGAGCGCATGATGGCCTACTGCGACCAGATCTTCCAGGACGAGACGGGCAAGAACCGGAGGCAGTCGGGCTC  
CTTCTCAGCACCGGCTGGTTCACCATGATCCTCGCGCTGGAGCTGTGTGAGGAGATCGTGGTCTATGGGATGGT  
CAGCGACAGCTACTGCAGGGAGAAGAGCCACCCCTCAGTGCCTTACCCTACTTTGAGAAGGGCCGGCTAGATGA  
GTGTCAGATGTACCTGGCACACGAGCAGGCGCCCGAAGCGCCACCGCTTCATCACTGAGAAGGCGGTCTTCTC  
CCGCTGGGCCAAGAAGAGGCCCATCGTGTTCGCCCATCCGTCTGGAGGACTGAGTAGCTTCCGTCGTCTCTGCCA  
GTCGCCATGCCGTTGCGAGGCCTCCGGGATGTCCCATCCCAAGCCATCACACTCCACAAAAACATTTAATTTATG  
GATCCTGCCTCCTGCCACGTGCTGGGTGGACCTAAGGTTCTTTCCACTCCCTGAGTAATTCACGGCAATTTGGG  
GCTCACCCACCTCCAGGTCTGTCAAGTGGCCTTTGTCCC

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**FIGURE 2775**

GC GCGGCATAACGACCCAGGTCGCGGCGCGGCGGGGCTTGAGCGCGTGGCCGGTGCCGCAGGAGCCGAGCATGGA  
GTACCAGGATGCCGTGCGCATGCTCAATACCTGCAGACCAATGCCGGCTACCTGGAGCAGGTGAAGCGCCAGCG  
GGGTGACCCTCAGACACAGTTGGAAGCCATGGAAGTGTACCTGGCAGGAGTGGGCTGCAGGTGGAGGACTTGGA  
CCGGCTGAACATCATCCACGTCACTGGGACGAAGGGGAAGGGCTCCACCTGTGCCTTCACGGAATGTATCCTCCG  
AAGCTATGGCCTGAAGACGGGATTCTTTAGCTCTCCCCACCTGGTGCAGGTTGCGGAGCGGATCCGCATCAATGG  
GCAGCCCATCAGTCTGAGCTCTTACCAAGTACTTCTGGCGCCTCTACCACCGGCTGGAGGAGACCAAGGATGG  
CAGCTGTGTCTCCATGCCCCCTACTTCCGCTTCTGACACTCATGGCCTTCCACGTCTTCTCCAAGAGAAGGT  
GGACCTGGCAGTGGTGGAGGTGGGCATTGGCGGGGCTTATGACTGCACCAACATCATCAGGAAGCCTGTGGTGTG  
CGGAGTCTCCTCTCTTGGCATCGACCACACCAGCCTCCTGGGGGATACGGTGGAGAAGATCGCATGGCAGAAAGG  
GGGCATCTTTAAGCAAGGTGTCCCTGCCTTCACTGTGCTCCAACCTGAAGGTCCCTGGCAGTGTGAGGGACCG  
AGCCAGCAGATCTCATGTCTCTATACCTGTGTCCGATGCTGGAGGCCCTCGAGGAAGGGGGGCCCGCGCTGAC  
CCTGGGCTGGAGGGGGAGCACCAGCGGTCCAACGCCGCTTGGCCTTGACGCTGGCCCACTGCTGGCTGCAGCG  
GCAGGACCGCCATGGTGTCTGGGGAGCCAAAGGCATCCAGGCCAGGGCTCCTGTGGCAGTCCCCCTGGCACCTGT  
GTTCCAGCCCACATCCCACATGCGGCTCGGGCTTCGGAACACGGAGTGGCCGGGCCGACGACGGTGTGCGGCG  
CGGGCCCCCTACCTGGTACCTGGACGGTGCACACCCGCCAGCAGCGCGCAGGCCTGCGTGCCTGTTCCGCCA  
GGCGCTGCAGGGCCGCGAGAGGCCGAGCGGTGGCCCCGAGGTTTCGAGTCTTGCTCTTCAATGCTACCGGGGACCG  
GGACCCGGCGGCCCTGCTGAAGCTGCTGCAGCCCTGCCAGTTTGAATATGCCGTCTTCTGCCCTAACCTGACAGA  
GGTGTATCCACAGGCAACGCAGACCAACAGAACTTACAGTGACACTGGACCAGGTCTGCTCCGCTGCCTGGA  
ACACCAGCAGCACTGGAACCACTGGACGAAGAGCAGGCCAGCCCGGACCTCTGGAGTGCCCCCAGCCCAGAGCC  
CGGTGGGTCCGCATCCCTGCTTCTGGCGCCCCACCCACCCACACCTGCAGTGCCAGCTCCCTCGTCTTTCAGCTG  
CATTTACATGCCTTGCAATGGATCAGCCAAGGCCGAGACCCCATCTTCCAGCCACCTAGTCCCCCAAAGGGCCT  
CCTCACCACCCCTGTGGCTCACAGTGGGGCCAGCATACTCCGTGAGGCTGCTGCCATCCATGTGCTAGTCACTGG  
CAGCCTGCACCTGGTGGGTGGTGTCTGAAGCTGCTGGAGCCCGCACTGTCCAGTAGCCAAGGCCCGGGGTGG  
AGGTGGGAGCTTCCACACCTGCCTGCGTTCTCCCCATGAACCTACATACTAGGTGCCCTTTTGTGTTTTGGCTTTC  
CTGTTCTGTCTAGACTGGCCTAGGGGCCAGGGCTTTGGGATGGGAGGCCGGGAGAGGATGTCTTTTTTAAGGCT  
CTGTGCCTTGGTCTCTCCTTCTTGGCTGAGATAGCAGAGGGGCTCCCCGGGTCTCTACTGTTGCAGTGGCC  
TGGCCGTTACGCTGTCTCCCCAACACCCCGCTGCCTCCTGGCTCAGGCCAGCTTATTGTGTGCGCTGCCTG  
GCCAGGCCCTGGGTCTTGCCATGTGCTGGGTGGTAGATTTCCTCCTCCAGTGCCCTTCTGGGAAGGGAGAGGGCC  
TCTGCCITGGGACACTGCGGGACAGAGGGTGGCTGGAGTGAATTAAAGCCTTTGTTTTT

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**FIGURE 2776**

MSRARSHLRAALFLAAASARGITTQVAARRGLSAWPVPOEPSMEYQDAVRMLNTLQTNAGYLEQVKRQRGDPQTQ  
LEAMELYLARSGLQVEDLDRLNIIHVTGKKGSTCAFTECILRSYGLKTGFFRFGSGSASMGSPSVLSSSPSTS  
GASTTGWRRPRMAAVSPCPPTSAS

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**FIGURE 2777**

TCACCCGGATGGCGGCTGCGACGCGGGCTGCCGGCCCTGGGGCTCGCTCCTCGGGCTGCTCGGGCTGGTCTCGG  
CCGCGGCCGCCCTGGGACCTGGCTTCCCTGCGCTGCACCTTGGGCGCCTTTTGCGAATGCGACTTCCGCCCCG  
ACTTGCCGGGTCTGGAGTGTGACCTGGCTCAGCACCTGGCCGGCCAGCATCTGGCCAAGGCGCTGGTGGTGAAGG  
CGCTGAAGGCCCTTTGTGCGGGACCCAGCCCCACCAAGCCGCTGGTCTCTCCCTGCACGGCTGGACCGGCACCG  
GCAAACTCTATGTCAGCTCCCTGCTGGCGCACTACCTCTTCCAGGGCGGCCTCCGCAGCCCCCGCTGCACCACT  
TTTCTCCCGTCTCCACTTCCCCACCCAGCCACATCGAGCGCTACAAGAAGGATCTGAAGAGCTGGGTCCAAG  
GGAACCTCACTGCTGTGGCGCTCCCTCTTCTCTTCGATGAGATGGACAAGATGCCCCAGGCCTGATGGAAG  
TCCTGCGGCCTTTCTGGGCTCCTCTGGGTGGTATACGGGACCAATTACCGCAAAGCCATCTTCATCTTCATCA  
GGTGGGGCCCGCTTTGCAGTGGGCACAGTGGGGGGGCCACTTCTCAGAGGTTAGCTCTACAGCCTTAGCCTGT  
GCTCCAGCAGAATCCAGTTCCCCATGGGCTTAGCTGGGCTTTCCAGTGCCCTCCGCCACTCTCAGAGATGACA  
TTGTCAATCCGCTGGTTGATTTCCCTTTGGACATTCTCAGCAAATTCTGGGCTCAGTCTTTTGTATCGCCACTT  
CTTTGTGGAAGCCCTGCCAGGTCAAGAAGTTTCCCTCTTTTGTGGTGAGGAGGACACAGGCCTGGGAAAAATAG  
GAACAGAGTTCTTGTCTTTAGTCCAGCTCTCAGAATCCTCGCTGTGTTTCTCAGGCAGCATGGCTCCGCCCTC  
TCTGAGCCTCTGTCTCTGCTTCTGAACAGCGGGGCCAATAATGATGCCCGATGCCTTCTGGAAGTTAGTGAG  
GGAAAGTCAGTTGAGGGACACAAAAGTGTTTTGTAAACTATAAAGTACGTGGCATGTGTAGGTGAATTACAGGGG  
CCATGGATGTGGACACCATGGAGGGGAAGTGGAGCGTTTTAGTGGAGTTGGCTCCTCCCGCACTGAGCCATG  
TTCTATGTGAGGTGGCAGCGGGGAAGCGAGGGTCCAATCCTGCCCTGCGCTAGTCTCTGAGTCTCAGCCT  
GGGTCCCCCATGTTTTAGCAACACGGGTGGCAAGCAGATCAACCAGGTGGCATTGGAGGCGTGGCGCAGCCGGC  
GGGACCGCGAGGAGATCCTCTGCAGGAGCTGGAGCCGGTCATCTCCCGCGCGGTGCTGGACAACCCGCACCGTG  
AGTCTGGCTCAGCAGCCCCCTCCCGGGCAGCTTACCCCCACCCAGGGGCCAGGCTCTCCCGGGGTCTCATGCT  
TTGCCCACTGACCCGGCAGTTCTGAGCCTGGCTTTGGCACTCCCAGCTTTGTGACTTTGGGTGAGCCTTACAGCC  
CCTGAGTCTACACCCAGAAGGCGGCTGAGGGAAGTGGAGCCAGCATTTTCTCTCTGCCCTGGGGGTTTGGGG  
CCGGCTTCTCCCTCTTGTGAAGCACAAAGTCCCTCCCCACCTACCCTTCTGCAGATGGCTTCTCAAACCTCGG  
GCATCATGGAAGAGCGCCTCTAGACGCAGTGGTGCCCTTCTCCCGCTCCAGCGGCACCACGTCCGGCACTGCG  
TGCTCAACGAGCTGGCCAGCTGGGCCTGGAGCCAAGGGATGAGGTTGTCCAGGCTGTGCTGGACAGCACCACCT  
TCTTCCCTGAAGACGAGCAGCTCTTCTCTCCAACGGCTGCAAGACCGTGGCCTCCCGAATCGCCTTCTTCTCT  
GACTCTCTGAGTGGTGTCTCGGCCCCCTGATGGCCAGGCCATGCAGGAAAGGCCAGGGGCCCTCTGTACAGGA  
ACCCAGAGCACCAAGTGAATGAACGGAGTGTGGCTAGGCCACGGGACAGATGGCCAGGAAGGGCCCTGGCCTC  
TAAACTGGCTCGAGAGCATCTTGGCCCCGGCCACCTTCCCCAGGGAAACCCCTGGTCACCCAGAACCTCACTGA  
GCCTTGACCTCCCCCTGCAGCCTGAGCCTTCTTACTGTGAATTATAACTCAGGGACTGTGGCTCGTGGCGGTGCT  
CCCTCTCAGTCTGCCACCTTGGCCCTTGCCCTCTTGGTGGGACCATACCTCCTCCCTCCACCCACACCC  
TGTGTCCATATCAAGCCAGGTGGAGCCTTCTCAGTTTTCCAGAAATGGAGGGACTCAAGCTGCCACTTGGGCCTGG  
TTTTAGATGTTTTTAATTTGTAAAAGAAAACAAGTATAATAAACTCAGCTGTGGGACCAG



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**FIGURE 2778A**

GCGCCAGCGGCGTCCGCCTGAGCAGCGCGGGCAACAGCGGCGGCGTCGGCCGGATCGGGCCGCGACACCTCCTGG  
CCATGGGGGACGTGCTGTCCACGCACCTGGACGACGCCCCGGCGCCAGCACATCGCAGAAAAACCGGAAGATCC  
TGACGGAGTTCTCCAGTTCTATGAAGACCAGTATGGCGTGGCTCTCTTCAACAGCATGCGCCATGAGATTGAGG  
GCACGGGGCTGCCGAGGCCCAGCTGCTCTGGCGCAAGGTGCCACTGGACGAGCGCATCGTCTTCTCGGGGAACC  
TCTTCCAGCACCAGGAGGACAGCAAGAAGTGGAGAAACCGCTTCAGCCTCGTGCCCCACAACCTACGGGCTGGTGC  
TCTACGAAAAACAAGCGGCCTATGAGCGGCAGGTCCACCACGAGCCGTCATCAACAGTGCAGGTACAAAATCC  
TCACGTCCGTGGACCAATACCTGGAGCTCATTGGCAACTCCTTACCAGGGACCACGGCAAAGTCGGGCAGTGCCC  
CCATCCTCAAGTGCCCCACACAGTTCCTCGCTCATCCTCTGGCATCCTTATGCGCGTCACTACTACTTCTGCATGA  
TGACAGAAGCCGAGCAGGACAAGTGGCAGGCTGTGCTGCAGGACTGCATCCGGCACTGCAACAATGGAATCCCTG  
AGGACTCCAAGGTAGAGGGCCCTGCGTTCACAGATGCCATCCGCATGTACCGACAGTCCAAGGAGCTGTACGGCA  
CCTGGGAGATGCTGTGTGGGAACGAGGTGCAGATCCTGAGCAACCTGGTGATGGAGGAGCTGGGCCCTGAGCTGA  
AGGCAGAGCTCGGCCCGCGGCTGAAGGGGAACCGCAGGAGCGGCAGCGGCAGTGGATCCAGATCTCGGACGCCG  
TGTACCACATGGTGTACGAGCAGGCCAAGGCGCGCTTCGAGGAGGTGCTGTCCAAGGTGCAGCAGGTGCAGCCGG  
CCATGCAGGCCGTATCCGAACTGACATGGACCAAATTATCACCTCCAAGGAGCACCTTGCCAGCAAGATCCGAG  
CCTTCATCCTCCCCAAGGCAGAGGTGTGCGTGCAGGAACCATGTCCAGCCCTACATCCCATCCATCCTGGAGGCC  
TGATGGTCCCCACCAGCCAGGCTTCACTGAGGTGCGAGATGTCTTCTTCAAGGAGGTACGGACATGAACCTGA  
ACGTATCAACGAGGGCGGCATTGACAAGCTGGGCGAGTACATGGAGAAGCTGTCCCGCTGGCGTACCACCCCC  
TGAAGATGCAGAGCTGCTATGAGAAGATGGAGTCGCTGCGACTGGACGGGCTGCAGCAGCGATTTGATGTGTCCA  
GCACGTCCGTGTTCAAGCAGCGAGCCCAGATCCACATGCGGGAGCAAATGGACAATGCCGTGTATACGTTCGAGA  
CCCTCCTGCACCAGGAGCTGGGGAAGGGGCCACCAAGGAGGAGCTGTGCAAGTCCATCCAGCGGGTCTTGAGC  
GGGTGCTGAAGAAATACGACTACGACAGCAGCTCTGTGCGGAAGAGGTTCTTCCGGGAGCGCTGCTGCAGATCA  
GCATCCCGTTCTCTGCTCAAGAAGCTGGCCCCCTACCTGCAAGTCGGAGCTGCCCCGGTTCAGGAGCTGATCTTCG  
AGGACTTTGCCAGGTTTCATCCTGGTGGAAAACACGTACGAGGAGGTGGTGTGTCAGACCGTCATGAAGGACATCC  
TGCAGGCTGTGAAGGAGCGCGGTGCAGAGGAAGCACAACCTCTACCGGGACAGCATGGTCATGCACACAGCG  
ACCCCAACCTGCACCTGCTGGCCGAGGGCGCCCCCATCGACTGGGGCGAGGAGTACAGCAACAGCGCGGGGGCG  
GCAGCCCCAGCCCCAGCACCCCGGAGTCAGCCACCTCTCGGAAAAGCGACGGCGCGCAAGCAGGTGGTCTCTG  
TGGTCCAGGATGAGGAGGTGGGGCTGCCCTTTGAGGCTAGCCCTGAGTCACCACCACCTGCGTCCCCGGACGGTG  
TCACTGAGATCCGAGGCTGCTGGCCCAAGGTCTGCGGCTGAGAGCCCCCACCAGCCGGCCCCCTGCTCAACG  
GGGCCCCCGCTGGGGAGAGTCCCCAGCCTAAGGCCGCCCCCGAGGCTCCTCGCCGCTGCTTACCCCTCCAGC  
ATCTCCTGCCTGGAAGGCTGTGGACCTTGGGCCCCCCAAGCCAGCGACCAGGAGACTGGAGAGCAGGTGTCCA  
GCCCCAGCAGCCACCCGCCCCCTCCACACCACCACCGAGGACAGTGCAGGGGTGCAGACTGAGTTCTAGGCCAGTG  
GGTCCCTGACTGCTGCACATGGCACAGGCCGTTCCCTTCCGGACCCAGGCAGGCTCAGCTCTGGGGAGGGCACCC  
TGGTCTGTGCCTTGTGGGTGGAGGCGGGGCAGGGCTGTGTGGCACCGCCAGGGAGCGGGCCACCTGAGTCACTT  
TATTGGGTTTCAGTCAACACTTTCTTGCTCCCTGTTTTCTCTTCTGTGGGATGATCTCAGATGCAGGGGCTGGTTT  
TGGGGTTTTCTGCTTGTGCCAAGGCTGGACACTGCTGGGGGGCTGGAAAGCCCCCTCCCTTCTGTCTCTGTG  
GGCTCCATCCCCCTCATGGGTGCTGCCATCCTTCTTGAGAGAGGGGAGGTGAAAGCTGGTGTGAGCCAGTGGGT  
TCCCGCCCACTACCCAGGAGCTGGCTGGGCCAGGACCGGGAGAGGGAGCACTGCTGCCCTCCTGGCCCTGCTCC  
TTCCGCAGTTAGGGGTGGACCGAGCCTCGCTTTCCCACTGTTCTGGAGGGAAGGGGAAGGAGGGGGTCTTCAGG  
CTGGAGCCAGGCTGGGGGTGCTGGGTGGAGAGATGAGATTTAGGGGGTGCCTCATGGGTGGGCAGGCCTGGGGT  
GAAATGAGAAAGGCCCAAGACGTGCAGGTCTGCGGAGGGGAAGTGTCTGAGTGAAGGAGGGGACCCCCATCCTG  
GGGGATGCTGGGAGTGAGTGAGTGAGATGGCTGAGTGAGGGTTATGGGGAGCCTGAGGTTTTATGGGCCTGTGTA  
TCCCTTCTCCCGGCCCCAGCCTGCCCTCCCTCCTGCCCGCTGGCCACAGGTCTCCCTCTGGTCCCTGTCCCTC  
TGGTGGTTGGGGATGAGCGGCAGCAAGGGGTGTAATGGGGCTGGGTTCTGTCTTCTACAGGCCACCCGAGGTC  
CTCAGTGGTTGCCTGGGAGCCGGACGGGGCTCCTGAGGGGTACAGGTTGGGTGGGCCCTCCCTGAGGGTCTGGG  
GTCAGGCTTTGGCCTCTGCTGCCTCTCAGTCACCAAGTCACCTCCCTCTGAAAATCCAGTCCCTTCTTTGGATGT  
CCTTGTGAGTCACTCTGGGCCTGGCTGTGCTCCCTCCTCAGCTTCTTGTTCCTGGGACAAGGGTCAAGCCAGGAT  
GGGCCCAGGCCTGGGATCCCCCAGCCAGGACCCCAAGGCCCCCTCCCTGCTGCTTTGCGGGGGGCAGGGCAGA  
AATGGACTCCTTTTGGGTCCCCGAGGTGGGGTCCCCCTCCAGCCCTGCATCCTCCGTGCCCTAGACCTGCTCCCC

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**FIGURE 2778B**

AGAGGAGGGGCCTTGACCCACAGGACGTGTGGTGGCGCCTGGCACTCAGGGACCCCAGCTGCCGCAGCCCTGGT  
CTCTGGCGCATCTCTCCCTCTTGTCGGAAGATCTGCGCCTCTAGTGCCTTTTGAGGGGTCCCATCATCCCTC  
CCTGATATTGTATTGAAAATATTATGCACACTGTTTCATGCTTCTACTAATCAATAAACGCTTTATTT

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**FIGURE 2779**

MGDVLSTHLDDARRQHIAEKTGKILTEFLQFYEDQYGVALFNSMRHEIEGTGLPQAQLLWRKVPLDERIVFSGNL  
FQHQEDSKKWRNRFSLVPHNYGLVLYENKAAYERQVPPRAVINSAGYKILTSVDQYLELIGNSLPGTTAKSGSAP  
ILKCPTQFPLILWHPYARHYFFCMMTEAEQDKWQAVLQDCIRHCNNGIPEDSKVEGPAFTDAIRMYRQSKELYGT  
WEMLCGNEVQILSNLVMEEELGPELKAELGPRLKGKPQERQRQWIIQISDAVYHMYEQAKARFEEVLSKVQQVQPA  
MQAVIRTDMDQIIITSKEHLASKIRAFILPKAEVCVRNHVQPYIPSILEALMVPTSQGFTEVRDVFFKEVTDMLN  
VINEGGIDKLGEYMEKLSRLAYHPLKMQSCYEKMESLRDLQQRFDVSSTSVFKQRAQIHMREQMDNAVYTFET  
LLHQELGKGPTKEELCKSIQVLERVLKKYDYDSSSVRKRFREALLQISIPFLLKKLAPTCKSELPRFQELIFE  
DFARFILVENTYEEVVLQTMKDILQAVKEAAVQRKHNLRYDSMVMHNSDPNLHLLAEGAPIDWGEEYSNSGGGG  
SPSPSTPESATLSEKRRRAKQVVSVVQDEEVGLPFEASPESPPPASPDPGVTEIRGLLAQGLRPESPPPAGPLNG  
APAGESPQPKAAPEASSPPASPLQHLLPGKAVDLGPPKPSDQETGEQVSSPSSHPALHTTTEDSAGVQTEF

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**FIGURE 2780**

CTCTCGGCTTTTCGGCTCGGAGGAGGCCAAGGTGCAACTTCCTTCGGTCGTCCCGAATCCGGGTTTCATCCGACACC  
AGCCGCCTCCACCATGCCGCCGAAGTTCGACCCCAACGAGATCAAAGTCGTATACCTGAGGTGCACCGGAGGTGA  
AGTCGGTGCCACTTCTGCCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGTTGGTGATGACAT  
TGCCAAGGCAACGGGTGACTGGAAGGGCCTGAGGATTACAGTGAAACTGACCATTGAGAACAGACAGGCCCAGAT  
TGAGGTGGTGCCCTTCTGCCCTCTGCCCTGATCATCAAAGCCCTCAAGGAACCACCAAGAGACAGAAAGAAACAGAA  
AAACATTAAACACAGTGGGAATATCACTTTTGATGAGATTGTCAACATTGCTCGACAGATGCGGCACCGATCCTT  
AGCCAGAGAACTCTCTGGAACCATTAAAGAGATCCTGGGGACTGCCCAGTCAGTGGGCTGTAATGTTGATGGCCG  
CCATCCTCATGACATCATCGATGACATCAACAGTGGTGCTGTGGAATGCCCAGCCAGTTAAGCACAAAGGAAAAC  
ATTTCAATAAAGGATCATTGACAACCTGGTGA

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**FIGURE 2781**

MPPKFDPNEIKVVYL RCTGGEVGATSALAPKIGPLGLSPKKVGDDIAKATGDWKGLRITVKLTIQNRQAQIEVVP  
SASALIIKALKEPPRDRKKQKNIKHSGNITFDEIVNIARQMRHRS LARELSGTIKEILGTAQSVGCNVDGRHPHD  
IIDDINS GAVECPAS

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**FIGURE 2782**

AACCACCATTTTGCAAGGACCATGAGGCCACTGTGCGTGACATGCTGGTGGCTCGGACTGCTGGCTGCCATGGGA  
GCTGTTGCAGGCCAGGAGGACGGTTTTTGAGGGCACTGAGGAGGGCTCGCCAAGAGAGTTCATTACCTAAACAGG  
TACAAGCGGGCGGGCGAGTCCCAGGACAAGTGCACCTACACCTTCATTGTGCCCCAGCAGCGGGTCACGGGTGCC  
ATCTGCGTCAACTCCAAGGAGCCTGAGGTGCTTCTGGAGAACCAGTGCATAAGCAGGAGCTAGAGCTGCTCAAC  
AATGAGCTGCTCAAGCAGAAGCGGCAGATCGAGACACTGCAGCAGCTGGTGGAGGTGGACGGCGGCATTGTGAGC  
GAGGTGAAGCTGCTGCGCAAGGAGAGCCGCAACATGAACTCGCGGGTCACGCAGCTCTACATGCAGCTCCTGCAC  
GAGATCATCCGCAAGCGGGACAACGCGTTGGAGCTCTCCCAGCTGGAGAACAGGATCCTGAACCAGACAGCCGAC  
ATGCTGCAGCTGGCCAGCAAGTACAAGGACCTGGAGCACAAGTACCAGCACCTGGCCACACTGGCCCACAACCAA  
TCAGAGATCATCGCGCAGCTTGAGGAGCACTGCCAGAGGGGTGCCCTCGGCCAGGCCCCGTCCCCAGCCACCCCC  
GCTGCCCCGCCCCGGGTCTACCAACCACCCACCTACAACCGCATCATCAACCAGATCTCTACCAACGAGATCCAG  
AGTGACCAGAACCTGAAGGTGCTGCCACCCCCCTGCCCCACTATGCCCCACTCTCACCAGCCTCCCATCTTCCACC  
GACAAGCCGTCGGGCCCCATGGAGAGACTGCCTGCAGGCCCTGGAGGATGGCCACGACACCAGCTCCATCTACCTG  
GTGAAGCCGGAGAACACCAACCGCCTCATGCAGGTGTGGTGCGACCAGAGACACGACCCCGGGGGCTGGACCGTC  
ATCCAGAGACGCCTGGATGGCTCTGTAACTTCTTCAGGAACCTGGGAGACGTACAAGCAAGGGTTTGGGAACATT  
GATGGCGAATACTGGCTGGGCCTGGAGAACATTTACTGGCTGACGAACCAAGGCAACTACAACTCCTGGTGACC  
ATGGAGGACTGGTCCGGCCGCAAAGTCTTTGCAGAATACGCCAGTTTCCGCCTGGAACCTGAGAGCGAGTATTAT  
AAGCTGCGGCTGGGGCGCTACCATGGCAATGCGGGTGACTCCTTTACATGGCACAACGGCAAGCAGTTCACCACC  
CTGGACAGAGATCATGATGTCTACACAGGAACTGTGCCCACTACCAGAAGGGAGGCTGGTGGTATAACGCCTGT  
GCCCCACTCAACCTCAACGGGGTCTGGTACCGCGGGGGCCATTACCGGAGCCGCTACCAGGACGGAGTCTACTGG  
GCTGAGTTCCGAGGAGGCTCTTACTCACTCAAGAAAGTGGTGATGATGATCCGACCGAACCCCAACACCTTCCAC  
TAAGCCAGCTCCCCCTCC

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**FIGURE 2783**

MRPLCVTCWWLGLLAAMGAVAGQEDGFEGTEEGSPREFIYLNRYKRAGESQDKCTYTFIVPQQRVGTGAICVNSKE  
PEVLLENRVHKQELELLNNELLKQKRQIETLQQLVEVDGGIVSEVKLLRKESRNMNSRVTQLYMQLLHEIIRKRD  
NALELSQLENRILNQADMLQLASKYKDLEHKYQHLATLAHNQSEIIAQL EEHCQRVPSARPVPQPPPAAPPRVY  
QPPTYNRIINQISTNEIQSDQNLKVLPPPLPTMPTLTSLPSSTDKPSGPWRDCLQALEDGHDTSIIYLVKPENTN  
RLMQVWCDQRHDPGGWTVIQRRLDGSVNFFRNWETYKQGFNIDGEYWLGLENIYWLTNQGNKLLVTMEDWSGR  
KVFAEYASFRLEPESEYYKLRLGRYHGNAGDSFTWHNGKQFTTLD RDHDVYTGNC AHYQKGGWWYNACAHSNLNG  
VWYRGGHYRSRYQDGVYWAEFRGGSYSLKKVMMIRPNPNTFH

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**FIGURE 2784A**

CAGGATATAATTGATACAGCATGTGAAGTATTGGCCGACCCTTCTCTTCCGGAACGTGTTCTGGGGAACAGAGCCA  
ACTTCTGGCCTTGGGATCATTCTGGACAGTGTGTGTGGAATGTTTCCCCACCTTCTCTCCCCACTCCTGCAACTG  
CTCCGAGCCCTGGTATCAGGGAAGTCCACAGCCAAAAAGGTGTATAGCTTCTTGGATAAGATGTCTTTCTACAAT  
GAACTTTATAAACACAAGCCTCATGATGTGATCTCCCATGAAGATGGAACCTTTTGGCGGAGACAAACACCCAAA  
CTCCTTTATCCCCTTGGGGGTCAAACCAACCTTCGCATACCTCAAGGCACGTGTTGGGCAAGTAATGTTGGATGAT  
AGGGCATACCTGGTACGCTGGGAATACTCTATAGCAGCTGGACCCTCTTACCTGCGAGATTGAAATGTTGCTT  
CATGTTGTTTCAACTGCAGATGTGATTGACAGCTGCCAGCGAGTCAAACCCATCATTGATCTCGTCCATAAGGTC  
ATCAGTACAGACCTGTCGATAGCAGACTGTCTCTGCCATCACAATCTCGCATCTACATGCTGCTGCAGCGGTTA  
ACGACAGTGTCTCCCCACCTGTGGATGTATTGCTTCTTGTGTCAACTGCTTAACCTGTTTGGCTGCCCCGAAT  
CCAGCAAAGGTCTGGACTGATCTTCGTACACAGGTTTTTACCATTGTGGCCCATCCTGTCTCCAGCCTGAGT  
CAGATGATTAGTGCAGGAGGGATGAATGCTGGAGGGTACGAAACCTCTTGATGAACAGTGAACAGCCTCAGGGC  
GAGTATGGGGTTACTATTGCCTTTCTGCGCTTGATCACCACCTTGTCAAGGGGCAACTTGGTAGTACCCAGAGC  
CAAGGACTTGTACCCTGTGTAATGTTTGTGCTGAAGGAGATGCTTCCCAGCTACCATAAGTGGCGCTACAACCTCT  
CATGGAGTGAGGGAACAGATTGGTTGCCTGATCTTGGAGCTGATTGATGCGATACTGAACCTGTGCCACGAGACA  
GACCTGCACAGCAGTCATACTCCCAGCCTGCAGTTTTCTCTGCACTGCAGCCTGGCATAACAGAAAGCAGGACAG  
ACAGTTATCAATATCATGGGCATTGGCGTGGACACCATTTGACATGGTGATGGCTGCTCAGCCTCGAAGTGATGGG  
GCAGAGGGCCAGGGGCAGGGCCAGCTGCTGATCAAGACAGTGAAACTGGCATTCTCCGTCACCAACAATGTTATT  
CGGCTGAAACCTCCTTCTAATGTGGTGTCCCCCTGGAACAGGCTCTCTCACAACATGGTGCTCATGGAAACAAC  
CTCATTGCTGTTCTAGCCAAATACATCTACCACAAACATGACCCTGCTTTGCCACGCTTTGCCATTGAGCTGCTG  
AAACGTCTGGCCACGGTGGCCCCAATGTGAGTGTATGCTTGTCTGGGCAATGATGCGGCTGCCATTGCTGATGCC  
TTCTGACCCGATTGCAGAGCAAAATTGAGGACATGCGCATCAAAGTCATGATTCTAGAGTTCCCTCACTGTTGCA  
GTAGAGACCCAGCCAGGCTCATCGAAGCTTTCTGAACCTGGAAGTTAAGGATGGCAGTGATGGCTCAAAGGAA  
TTCAGCCTTGGGATGTGGAGCTGTCTCCATGCAGTGTGGAGCTGATTGATTCCCAACAGCAAGATCGATACTGG  
TGCCCCACCCCTGCTGCATCGTGCCGCAATTGCCTTTTTGTCATGCTCTGTGGCAGGATCGGAGGGACAGTGCCATG  
CTGGTCTCCGAACCAACCCAAGTTTTGGGAAAATTTAACAGTCCGCTGTTTGGAAACCTTTCTCCTCCCTCT  
GAAACATCAGAGCCCAGCATCCTGGAACCTGTGCCCTAATCATGAAGATAATTTGCTTGGAGATATACTATGTA  
GTAAAGGGTTCATTAGACCAGTCATTAAAGGATACACTGAAGAAATTTTCCATCGAGAAACGCTTTGCCTACTGG  
TCAGGGTATGTCAAGTCATTGGCAGTTCACGTGGCCGAAACAGAAAGCAGCAGCTGCACCTCCTTGTTAGAGTAC  
CAGATGCTGGTGTCCGCTGGAGGATGCTTCTCATATTGCCACCACTCATGCAGATATAATGCACCTGACTGAC  
TCTGTGGTGCCTGCCAGCTCTTTCTTGACGTGCTTGATGGAACCAAGCATTACTCCTAGTTCCAGCCTCAGTG  
AACTGCCCTTCGCCTTGGCTCCATGAAGTGCACTCTGTGCTTATCCTCCTCCGGCAGTGGAAGAGAGAGTTAGGT  
TCTGTGGATGAAATCCTTGGACCCCTTGACGGAGATCCTGGAGGGAGTGCTGCAGGCCGACCAGCAACTCATGGAG  
AAGACCAAGGCCAAGGTGTTCTCAGCATTATCAGAGTGTGCAAATGAAGGAGATGAAAGTAAGTGACATCCCC  
CAGTACTCCCAGCTGGTGTGAATGTCTGTGAGACCTCCAAGAGGAAGTGATTGCACTCTTCGACCAGACCCGC  
CACAGTCTGGCATTAGGCAGTGCCACAGAGGACAAGGACAGCATGGAGACTGACGACTGTTCTCGGTCCCGGCAC  
AGGGACCAGCGTGATGGGGTGTGTGCTGGGCTGCACCTGGCCAAGGAGCTGTGTGAGGTAGACGAGGATGGT  
GACTCCTGGCTGCAGGTAACCCGAGGCTCCCCATCCTACCCACCCCTCCTCACCCTCTAGAGGTGAGCCTTCGC  
ATGAAGCAGAACCTGCATTCACTGAGGCCACATTGCATCTGCTCCTCACCCTGGCTCGCACTCAGCAGGGAGCC  
ACAGCAGTGGCTGGAGCTGGCATCACCCAGAGCATTGTTTGGCCCTTCTGAGTGTGTACCAGCTGAGCACCAC  
GGCAGACACAGACACCTAGTGCTCTCGGAAGTCCCTGGATGCCCCCTCTTGGCCAGGAGTCTACCGCCTGTCC  
ATGTCCCTGATGGAGCAGCTGCTCAAACTCTGCGCTACAACCTCCTGCTGAGGCCCCCTGGACTTCGTGGGTGTC  
CACCAGGAGCGGACCTTACAGTGCTCAACGCAGTGAGGACAGTGCAGAGTCTGGCCTGCCTGGAGGAGCGGAC  
CACACCGTGGGTTTTATTCTGCAGCTCTTAACCTCATGAAGGAGTGGCACTTCCACCTGCCTCAGCTCATGCGT  
GATATCCAGGTCAACCTGGGTTACTTGTGCCAGGCATGTACCTCTCTCCTGCACAGTCGAAAGATGCTGCAGCAT  
TACTTACAGAACAAAAATGGGGATGGCTCCCCCTCAGCTGTGCCCCAGCGAGTCCAGAGGCCACCGTCTGCTGCT  
TCTGCTGCCCCCTCCTCCTCAAAGCAGCCCGCTGCTGACACAGAGGCATCAGAGCAGCAGGCTTGCACACAGTC  
CAGTATGGCCTTCTCAAGATCCTCAGCAAGACGCTGGCAGCCCTGCGCCACTTACCCCAAGATGCTGCCAGATT  
CTGCTGGATCAGTCCCTGGACCTTGCTGAATACAACCTTCTGTTTGGCCTGAGCTTTACCACTCCCACTTTGAC



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**FIGURE 2784B**

TCCGAAGTGGCCCCCTCCTTCGGGACCCTTCTG GCCACAGTGAATGTGGCCCTCAACATGCTTGGAGAGCTGGAC  
AAGAAAAAGGAGCCCCCTACCCAGGCAGTGGGGCTCAGCACACAGGCAGAAGGGACCAGGACGTTAAAGTCCCTC  
CTGATGTTTACCATGGAAACTGCTTCTACCTGCTCATCTCTCAGGCGATGCGGTACCTTAGGGACCCGGCTGTG  
CACCCCGGGACAAACAGCGGATGAAGCAGGAGCTCAGCTCTGAGTTGAGCACGCTGCTGTCCAGCCTCTCGCGC  
TACTTCCGCCGGGGAGCCCCAGCTCCCTGCCACTGGTGTCTCCCTCGCCGCAGGGCAAGTCCACCTCTCTC  
TCCAAAGCCAGCCCTGAGAGTCAGGAGCCTCTGATCCAGTTGGTGCAGGCGTTTGTCCGGCATATGCAAAGATAG  
GGCAGTGCTGTTCTGCCCACCTACCCCTCTCCACCAGCCTACACTGCACCCTGGCTGGCAGGGGTGCTGCTGGCT  
GCTAGGGCCTATACAATGGAGGGCACCTCCTGTCAACCCCTCCCGGAGTAGCCACGACTCCAGCCACCACCCAC  
TGACGTTATTTTATACTAGATGAAGAGGTCAACAGCAGGCATGGGGAGCCGAGTCTTCTGTGCTCAGGTCCTCA  
CGCTGCAGACGCCCCCTAGAGGAACTTTCCTTCCTTTCCAGCATTCCCCACAGCACTGCCGGCCAGGGGAGAGGC  
GGCAGCCCAGCAGAGGGCTCTATGCACGGGTTCAAACCTGTTTTCCACACTCTGTCTTTGCAGTTTGGTAATT  
CTGTGGTCTATTTATACAGATATTAAATCTTGTTTATAG

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FIGURE 2785

MASGGGVRASGRAKMAAAAGGPCVRSSRELWTILLGRSALRELSQIEAELNKHWRRLLEGLSYYKPPSPSSAEKV  
KANKDVASPLKELGLRISKFLGLDEEQSVQLLQCYLQEDYRGTRDSVKTVLQDERQSQALILKIADYYYEERTCI  
LRCVLHLLTYFQDERHPYRVEYADCVDKLEKELVSKYRQQFEELYKTEAPTWETHGNLMTERQVSRWFVQCLREQ  
SMLEIIFLYYAYFEMAPSDLLVLTKMFKEQGFGSRQTNRHLVDETMDFVDRIGYFSALILVEGMDIESLHKCA  
LDDRRELHQFAQDGLICQDMDCLMLTFGDIPHAPVLLAWALLRHTLNPEETSSVVRKIGGTAIQLNVFYQLTRL  
LQSLASGGNDCTTSTACMCVYGLLSFVLTSLELHTLGNQQDIIDTACEVLADPSLPFLFWGTEPTSGLGIILDSV  
CGMFPHLLSPLLQLLRALVSGKSTAKKVYSFLDKMSFYNELYKHKPHDVISHEGTLWRRQTPKLLYPLGGQTNL  
RIPQGTGQVMLDDRAYLVRWEYSYSSWTLFTCEIEMLLHVSTADVIQHCQRVKPIIDLHVHKVISTDLSIADCL  
LPITSRIYMLLQRLTTVISPPVDVIASCVNCLTVLAARNPAKVWTDLRHTGFLPFVAHPVSSLSQMSAEGMNAG  
GYGNLLMNSEQPQGEYGVTTIAFLRLITTLVKGQLGSTQSQGLVPCVMFVLKEMPLSYHKWRYNSHGVREQIGCLI  
LELIHAILNLCHETDLHSSHTPSLQFLCICSLAYTEAGQTVINIMIGIVDTIDMVMAAQRSDGAEGQGQGLLI  
KTVKLAFSVTNNVIRLKPPSNVVSPLAQALSQHGAGNNLI AVLAKYIYHKHDPALPRLAIQLLKRLATVAPMSV  
YACLGNDAAAIRDAFLTRLQSKIEMRIKVMILEFLTAVETQPLIELFLNLEVKGSDGSGSKEFSLGMWSCLHA  
VLELIDSQQQDRYWCPLLHRAAIAFLHALWQDRRDSAMVLRLTKPKFWENLTSPLFGTSLPPSETSEPSILETC  
ALIMKIIICLEIYYVVGSLDQSLKDTLKKFSIEKRFAYWSGYVKS LAVHVAETEGSSCTSLLEYQMLVSAWRMLL  
IIATTHADIMHLTDSVVRQLFLDVLDTGKALLLVPASVNCLRLGSMKCTLLILLRQWKSILSRELGSVDEILG  
PLTEILEGVLQADQQLMEKTKAKVFSAFITVLQMKEMKVS DIPQYSQVLVNCETLQEEVIALFDQTRHSLALGS  
ATEDKDSMETDDCSRSRHRDQRDGVCLGLHLAKELCEVDEDDGDSWLQVTRRLPILPTLLTTLEVSLRMKQNLHF  
TEATLHLLLTARTQQGATAVAGAGITQSICLPLLSVYQLSTNGTAQTPSASRKS LDAPSWPGVYRLSMSLMEQL  
LKTLRYNFLPEALDFVGVHQERTLQCLNAVRTVQSLACLEEADHTVGFIQLSNFMKEWHFHLFQLMRDIQVNLG  
YLCQACTSLLHSRKMLQHYLQNKNGDGLPSAVAQRVQRPPSAASAAPSSSKQPAADTEASEQQALHTVQYGLLKI  
LSKTLAALRHFTPDVCQILLDQSLDLAEYNFLFALSFTTPTFDSEVAPSGTLLATVNVALNMLGELDKKKEPLT  
QAVGLSTQAEGRITLKSLLMTMENCYLLISQAMRYLRDPAVHPRDKQRMKQELSSSELSTLLSSLSRYFRRGAP  
SSPATGVLPSPQGKSTSLSKASPESQEPLIQLVQAFVRHMQR

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**FIGURE 2786**

AATTTGGCCAGGCTGAGAAGACTGAGCTTGATGCCCACTTTGAAAACCTTCTGGCCCGGGCAGACAGCACCAAGA  
ACTGGACAGAGAAGATCTTGAGGCAGACAGAGGTGCTGCTGCAGCCCAACCCAGTGCCCGAGTGGAGGAGTTCC  
TGTATGAGAAGCTGGACAGGAAGTCCCCCTCAAGGGTCACCAACGGGGAGCTGCTGGCTCAGTACATGGCAGACG  
CGGCCAGTGAGCTGGGGCCGACCACCCCTATGGGAAGACACTGATCAAGGTGGCAGAAGCTGAAAAGCAACTGG  
GAGCCGCGGAGAGGGATTTATCCACACGGCCTCCATCAGCTTCCTCACACCCTTGCGCAACTTCCTGGAGGGGG  
ACTGGAAGACCATCTCGAAGGAGAGGCGGCTCCTCCAAAACGGCGTCTGGACTTGGATGCCTGCAAAGCGAGGC  
TGAAGAAGGCCAAGGCTGCAGAAGCCAAAGCCACGTGTGAGGGAGATACGGTGCCTGACTTTCAGGAGACTAGAC  
CTCGTAATTACATTCTCTCGGCCAGCGCCTCCGCGCTCTGGAATGATGAAGTGGACAAGGCCGAGCAGGAGCTCC  
GCGTGGCCCGACAGAGTTTGACCGGCAAGCAGAAGTGACCCGTCTCTTGCTGGAGGGAATCAGTAGCACTCACG  
TGAACCACCTGCGCTGCCTCCACGAGTTCGTCAAGTCTCAGACAACCTACTACGCACAGTGCTACCGCCACATGC  
TGGACTTGCAGAAGCAGCTGGGCAGCTCCCAGGGTGCCATATTTCCCGGCACCTTCGTGGGCACCACAGAGCCCG  
CCTCCCCACCCCTGAGCAGCACCTCACCCACCACTGCTGCGGCCACTATGCCTGTGGTGCCCTCTGTGGCCAGCC  
TGGCCCTCCGGGGGAGGCCTCGCTCTGCCTGGAAGAGGTGGCCCCCCTGCCAGTGGGACCCGCAAAGCTCGGG  
TGCTCTATGACTACGAGGCAGCCGACAGCAGTGAGCTGGCCCTGCTGGCTGATGAGCTCATCACTGTCTACAGCC  
TGCCTGGCATGGACCCTGACTGGCTCATTGGCGAGAGAGGCAACAAGAAGGGCAAGGTCCCTGTACCTACTTGG  
AACTGCTCAGCTAGGCAGGTGCCCCCATCCCCCGCATTCTGGCCTAGGCAGGAGAGGATGGGCGCAGCCCTGC  
CACTTAACTTGTTTGTGGTGACACAGTTGTTGAGAGTGGGGAGAATTCACCCATTCTGTCCCTGCCCCCTAGTC  
ACCTAGCTGTGAGGGTGCCTGAGGCTGAATGGCTCCACCCCTCCCCAGCCCTGCTTCTGACCTGTGGCTCTGGA  
GCCCCCTGCCCTGCCTGCATCCCCGAGCACCCACCCCTCCAGGCTCCACTAAGGAGGGAGGGGCTGTCTGCAGCA  
GCTGCACTCAGCACCTAGGCCAGGGTGGGGCCGCGCAGATGGGCTCAGGAAGCCCCAGGTGCACTCAGCGAGAG  
CCCTGCCTTTCAGTTGCCAAAAGCTGCATCAGGGGAATGCGGCAAGGCACACAGGGCTCTGGCAGCCCCTGGGGA  
CTGGGCGCTGCCCCCTGGGAGGGGAGAGCCTGGCCAGGGCTGGTGTGGGGCCGAGCAGCATCTCCGGTGCTAT  
CCTCCCTCCACCCCTCACAGCTCAAGCCAAGTCCAGCGGCCG

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**FIGURE 2787**

ATGCGCCCCGCGCGCCCCGCACTGACATGGCCGTCGCCCCGTTCCGCGCGTCCGCGCGCGCCGCGCCGTTAATAG  
GCTTGCTCCCTGAGCGCCCCGACCGACATGGCGGCCGTCTTCGCTGTGGTGACTTTAACTCTCGGTTTTCGGTT  
ATAGCCGCGCGCGCTCACTTGCTTTCAGGAAGCTCGGAGCCTTTGGTGGAGCCGGGGAGAGGAAGGGTGGGTGC  
AAGAGTGAAGGCGAGAGGGGACTGCAAGCATCCGGGTCGGCTCCTGGCCGGAGCAAGATGGCTGAGGGCGAGCG  
GCAGCCGCGCCAGATTCTTCAGAGGAGGCCCTCCAGCCACTCAGAACTTCATCATTCCAAAAAAGGAGATCCA  
CACAGTTCAGACATGGGCAAATGGAAGCGTTCTCAGGCATACGCTGACTACATCGGATTTCATCCTTACCCCTCAA  
CGAAGGTGTGAAGGGGAAGAAGCTGACCTTCGAGTACAGAGTCTCCGAGATGTGAATGAGGTTTCATGAGGAAAA  
GGAGCAGGCTGCAAAGCAGAGTGTGTCTGCGATGAATGCATACCATTACCCGCGCGCGGGCACTGTGCACCTTC  
GGAGGCCATTGAGAACTAGTCGCTCTTCTCAACACGCTGGACAGGTGGATTGATGAGACTCCTCCAGTGGACCA  
GCCCTCTCGGTTTGGGAATAAGGCATACAGGACCTGGTATGCCAACTTGATGAGGAAGCAGAAAACTTGGTGGC  
CACAGTGGTCCCTACCCATCTGGCAGCTGCTGTGCTGAGGTGGCTGTTTACCTAAAGGAGTCAGTGGGGAATC  
CACGCGCATTGACTACGGCACAGGGCATGAGGCAGCCTTCGCTGCTTTCCTCTGCTGTCTCTGCAAGATTGGGGT  
GCTCCGGGTGGATGACCAAATAGCTATTGTCTTCAAGGTGTTCAATCGGTACCTTGAGGTTATGCGGAACTCCA  
GAAAACATACAGGATGGAGCCAGCCGGCAGCCAGGGAGTGTGGGGTCTGGATGACTTCCAGTTTTCTGCCCTTCAT  
CTGGGGCAGTTGCGAGCTGATAGACCACCCATACCTGGAGCCAGACACTTTGTGGATGAGAAGGCCGTGAATGA  
GAACCACAAGGACTACATGTTCTGAGTGTATCTGTTTATTACCGAGATGAAGACTGGCCCATTTGCAGAGCA  
CTCCAACAGCTGTGGAACATCAGCGCCGTCCCTTCCTGGTCCAAAGTGAACCAGGGTCTCATCCGCATGTATAA  
GGCCGAGTGCCTGGAGAAGTTCCTGTGATCCAGCACTTCAAGTTCGGGAGCCTGTGCCCCATCCATCTCTGCAC  
GTCGGGCTAGGAGGGGCCAAGCCGAAGAGCCACCAGGCCACAGTTCTGTGCTGCTTCCCCACCCAGCAGT  
GGCCCCCTCCCCATCCCCCTCCCTCTGTTCTGTCCTGTTTATGAGAGGCTGTTTACTGGGGTGGGGTGGCGAGATGG  
GCTTGAGGGGGCTCAGAGCATAAGGCTTCAGGGCCCAAGTTGGGAGAAGTGACCAAAGTGTAGCCAGTTTTCTGA  
GTTCCCGTGTGCTAGACTGGCCAGAAGAGAGGGTCTGGGGCTGGTCACTCGGCCACTCTCTCTGTTTCTGGCC  
TCTTCTCCCTTCACTCCCGTCCAGTCTGGTTTTTGAGAGCAGGGGCTGTTCTGCAGCACCGCAGGGAAGGGAGGAG  
AGATACCTGCTGCTTCCATTGCTTTCCCTTCCTGGAGTCGATGCCTTTCTAAGGGTTGGAGCTGCTCCTTGACAG  
GGCGGGTCACTTTCCAGGCCATGCCGGGTGGCCATCTATGGTAGGGCTGGAAGCTGAGGCTGGCCGCCAGCT  
GTGGGCTGGGGTGGGGTGGGTGGGGTGGGGTGGTGGAGAGGCCTTAGCTGTCTGCTGGCTGGTGGCCCTCCAGGCT  
CCTTTTACCCTGCCCCCTGGGCTGAGGCCCCCTGTGTCCAAGCCTCCCCCTGGCTTTCAGTTCTCTAGCCCT  
TGGCTCTGCTGGGTTTCTGACTGTAGCCACATCTCTCCCGCTCCCTAAGGGTAACCTAGCCAATGGAAGCTGCC  
CTTTGGGTAGGTGCTGGGCTCCTGGGAGGGGCCAGATGATGGGGTGAGGCATGTCTTTCCAGAACTTTCCCTGGC  
AGGGAGGGGATGGCAGAACTCAGGGAGGGGCTTGGGGCCATTGTATCTGGAGAGCCTGGATTCTCTTGGCAG  
TCTTAGGCCCCGCCACTTCTGCTACCTTTGCGCTGCTGTGAGCCTCACCTGGGCCCCCTGGGCCCTGCTTCTCTG  
CTCCCCCTGGGTGATGGGTGGGCCAGAAAGGTGGCAGTCCCACACCTTGTCCTCCACCTCCCTGAACGTGCCATT  
GCTTTTATAGGGTGAGGTAAGAGACAGCCTCCCAAGCCAGGCTTTGGCACTCAGAATGGGCCCAGTGGGGGCTG  
GGCAGGCCATTGAGGGCCACCGCCGAGGTTTTCTCCTAGGGCTGTTCTGGGCTGGCTCTTACAGGCTCGTCCC  
CCAGGCCTGCCCCTTCTCCACTGCCCCCTCCTGTGTCTGGGTCCACACACCTTCAGGAAGGGGGAGCACTGAGAA  
GCACAGCACAGGGGCTCAGCCTGGGATCCGGTGATGGTCTGGGCAGAGGCTGGGTGAGGAGTCCCAAAGGTCAGT  
GACAGTTTTCTCAGAAGAGGCCAGCGTCCACCTCTCTCCAGGGCCAGACAGCCCTTCTGGCTCCCCATCCCC  
CTATGGGCTCCAGCCCCCTTGACCCCTCATTGCTGTTTCAGATTAAAGCCTCTGTTTTGCACCTGT

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**FIGURE 2788**

MSSKLLPAGAHLSGSSEFLVEPGRGRVGARVKGERGLQASGSAPGRSKMAEGERQPPPDSSSEAPPATQNFII  
PKKEIHTVPDMGKWKRSQAYADYIGFILTLNEGVKGKKLTFEYRVSEMWNEVHEEKEQAAKQSVSCDECIPLPRA  
GHCAPSEAIEKLVALNLTDRWIDETPPVDQPSRFGNKAYRTWYAKLDEEAENLVATVVPTHLAAAVPEVAVYLK  
ESVGNSTRIDYGTGHEAAFAFLCCLCKIGVLRVDDQIAIVFKVFNRYLEVMRKLQKTYRMEPAGSQGVWGLDDF  
QFLPFIWGSSQLIDHPYLEPRHFVDEKAVNENHKDYMFLCILFITEMKTGPF AEHSNQLWNI SAVPSWSKVNQG  
LIRMYKAECLEKFPVIQHFKFGSLLPIHPVTSG

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**FIGURE 2789**

ATGGAGTGCGCCCTGGACGCCCAGAGCCTGATCAGCATCTCCCTGCGCAAGATCCACAGCTCCCGAACCCAGCGC  
GGCGGCATCAAGCTGCACAAGAACCTCCTGCGCGCCCGCTTCGAGGACTTCTGCCCGGACTCGTCCCGGACGCG  
TCCAACATCTCAAACCTTGATCTCCATCTTTGGCTCCGGCTTCTCGGGGCTGGTGAGCCGACAGCCGGACTCCTCG  
GAGCAGCCGCGCCGCTCAACGGGCAGCTGTGCGCCAAGCAGGCGCTCGCCAGCCTCGGCGCCTGGACTCGAGCC  
ATTGTCGCCTTCTAG

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FIGURE 2790A

ACAGCACAGACAGATTGACCTATTGGGGTGTTCGCGAGTGTGAGAGGGAAGCGCCGCGGCTGTATTTCTAGAC  
CTGCCCTTCGCCTGGTTTCGTGGCGCCTTGTGACCCCGGGCCCCCTGCCGCTGCAAGTCGGAAATTGCGCTGTGCT  
CCTGTGCTACGGCCTGTGGCTGGACTGCCTGCTGCTGCCAACTGGCTGGCAAGATGAAGCTCTCCCTGGTGGCC  
GCGATGCTGCTGCTGCTCAGCGCGGCGGGCCGAGGAGGAGGACAAGAAGGAGGACGTGGGCACGGTGGTGGC  
ATCGACCTGGGGACCACCTACTCCTGCGTCGGCGTGTTCAGAAGCGCCGCTGGAGATCATCGCCAACGATCAG  
GGCAACCGCATCAGCCGCTCTATGTCGCTTCACTCCTGAAGGGGAACGCTCTGATTGGCGATGCCGCCAAGAAC  
CAGCTCACCTCCAACCCCGAGAACACGGTCTTTGACGCCAAGCGGCTCATCGGCCGACGTGGAATGACCCGTCT  
GTGACGAGGACATCAAGTTCTTGCCGTTCAAGGTGGTTGAAAAGAAAATAAACCATACTTCAAGTTGATATT  
GGAGGTGGGCAAAACAAAGACATTTGCTCCTGAAGAAATTTCTGCCATGGTTCTCACTAAATGAAAGAAACCGCT  
GAGGCTTATTTGGGAAAGAAGGTTACCCATGCAGTTGTTACTGTACCAGCCTATTTTAAATGATGCCAACGCCAA  
GCAACCAAAGACGCTGGAACCTATTGCTGGCCTAAATGTTATGAGGATCATCAACGAGCCTACGGCAGCTGCTATT  
GCTTATGGCCTGGATAAGAGGGAGGGGAGAAGAATCCTGGTGTGTTGACCTGGGTGGCGGAACCTTCGATGTG  
TCTCTTCTCACCATTGACAATGGTGTCTTCGAAGTTGTGGCCACTAATGGAGATACTCATCTGGGTGGAGAAGAC  
TTTGACGAGCGTGTGATGGAACACTTCACTAACTGTACAAAAGAAGACGGGCAAAGATGTCAGGAAAGACAAT  
AGAGCTGTGCAGAACTCCGGCGCGAGGTAGAAAAGGCCAAACGGGCCCTGTCTTCTCAGCATCAAGCAAGAATT  
GAAATTGAGTCTTCTATGAAGGAGAAGACTTTTCTGAGACCCTGACTCGGGCCAAATTTGAAGAGCTCAACATG  
GATCTGTTCCGGTCTACTATGAAGCCCGTCCAGAAAGTGTGGAAGATTCTGATTGGAAGAGTCTGATATTGAT  
GAAATTGTTCTTGTGGTGGCTCGACTCGAATTCCAAAGATTGAGCAACTGGTTAAAGAGTCTTCAATGGCAAG  
GAACCATCCCGTGGCATAAACCAGATGAAGCTGTAGCGTATGGTGTGCTGTCCAGGCTGGTGTGCTCTCTGGT  
GATCAAGATACAGGTGACCTGGTACTGCTTGATGTATGTCCCTTACACTTGGTATTGAACTGTGGGAGGTGTC  
ATGACCAAACCTGATTCCAAGGAACACAGTGGTGCCTACCAAGAAGTCTCAGATCTTTTCTACAGCTTCTGATAAT  
CAACCAACTGTTACAATCAAGGTCTATGAAGGTGAAAGACCCCTGACAAAAGACAATCATCTTCTGGGTACATTT  
GATCTGACTGGAATTCCTCCTGCTCCTCGTGGGGTCCCACAGATTGAAGTCACCTTTGAGATAGATGTGAATGGT  
ATTCCTCGAGTGACAGCTGAAGACAAGGTACAGGGAACAAAATAAGATCACAATCACCATGACCAGAATCGC  
CTGACACCTGAAGAAATCGAAAGGATGGTTAATGATGCTGAGAAGTTTGCTGAGGAAGACAAAAGCTCAAGGAG  
CGCATTGATACTAGAAATGAGTTGGAAGCTATGCCTATTCTCTAAAGAAATCAGATTGGAGATAAAGAAAAGCTG  
GGAGGTAAACTTTTCTCTGAAGATAAGGAGACCATGGAAGAAAGCTGTAGAAGAAAAGATTGAATGGCTGGAAGC  
CACCAGATGCTGACATTGAAGACTTCAAAGCTAAGAAGAAGGAAGTGAAGAAAATTGTTCAACCAATTATCAGC  
AACTCTATGGAAGTGCAGGCCCTCCCCAACTGGTGAAGAGGATACAGCAGAAAAGATGAGTTGTAGACACTG  
ATCTGCTAGTGTGTAATATTGTAATACTGGACTCAGGAACCTTTTGTAGGAAAAAATTGAAAGAACTTAAGTC  
TCGAATGTAATTGGAATCTTCACCTCAGAGTGGAGTTGAACTGCTATAGCCTAAGCGGCTGTTTACTGCTTTTC  
ATTAGCAGTTGCTCATATGTCTTTGGGTGGGGGGGAGAAGAAGAAATTGGCCATCTTAAAAAGCAGGTAAAAACC  
TGGGTTAGGGTGTGTGTTACCTTCAAATGTTCTATTTAACTGAGGTCATGTGCATCTGGTGTAGGAAGTTT  
TTTCTACCATAAGTGACACCAATAAATGTTTGTATTACACTGGTCTAATGTTTGTGAGAAGCTTCTAATTAGA  
TCAATTACTTATTTTAGGAAATTTAAGACTAGATACTCGTGTGTTGGGTGAGGGGAGGAGATTGTTGATGTTG  
GGATAAGGAAACACTTCTATTTAATGCTTCCAGGGATTTTTTTTTTTTTTTTAAACCTCCTGGGCCCAAGTGA  
TCCTTCCACCTCAGTCTCCAGCTAATTGAGACCACAGGCTTGTTACCACCATGCTCGGCTTTTGCAATTAATCTA  
AGAAAAGGGGAGAGAAGTTAATCCACATCTTTACTCAGGCAAGGGGCATTTACAGTGCCCCAAGAGTGGGGTTTT  
CTTGAACATACTTGGTTTCTATTTCCCTTATCTTTCTAAACTGCCTTTCTGGTGGCTTTTTTAAATTTATT  
ACTAATGATGCTTTTATAGCTGCTTGGATTCTCTGAGAAATGATGGGGAGTGAGTGATCACTGGTATTAACTTTA  
TACACTTGGATTTTCAATTGTAACCTTTAGGATGTAAAGGTATATTGTGAACCCCTAGCTGTGTGAGAATCTCCATCC  
CTGAAATTTCTCATTAGTGGTACTGGGTGGGATCTTGGATGGTGACATTGAACTACACTAAATCCCCTCACTA  
TGAATGGGTGTTTAAAGGCAATGGTTTGTGTCAAACCTGGTTTAGGATTACTTAGATTGTGTTCTGAAAGAAAAG  
AGTCCAGGTAAATGGTATGATCAATAAAGGACAGGCTGGTGCTAACATAAAATCCAATATTGTAATCCTAGCACT  
TTGGGAGGCCAAGGCGGGTGGATCACAAGGTCAAGAGATAGAGACCATCTTTGCCAACATGGTGAACTCCATCT  
CTACTGAAAATACAAAATTAGCTGGGCGTGGTAGTGCAAGCTGAAGGCTGAGGCAGGAGAATCACTCGAACCCG  
GGAGGCAGAGGTTGCACTGAGCCGAGATCACACCACTGTACTCCAGCCCGGCACTCCAGCTGGCGACAAGAGTG  
AGACTCCACCTCAAAAAAAAAAAAAAGAATCCAATACTGCCCAAGGATAGGTATTTATAGATGGGCAACTGGCT

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**FIGURE 2790B**

GAAAGGTTAATTCTCTAGGGCTAGTAGAACTGGATCCCAACACCAAACCTCTTAATTAGACCTAGGCCTCAGCTGC  
ACTGCCCCGAAAAGCATTGGGCAGACCCTGAGCAGAATACTGGTCTCAGGCCAAGCCCAATACAGCCATTAAAGA  
TGACCTACAGTGCTGTGIACCCTGGGGCAATAGGGTTAAATGGTAGTTAGCAACTAGGGCTAGTCTTCCCTTACC  
TCAAAGGCTCTCACTACCGTGGACCACCTAGTCTGTAACTCTTTCTGAGGAGCTGTTACTGAATATTAAAAAGAT  
AGACTTCAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 2791**

MKLSLVAAML LLLS AARAE EEDKKEDVGT VVGIDLG TTYSCVGV FKNRVEI IANDQGNRITPSYVAF TPEGERL  
IGDAAKNQLTSNPENTVFDAKRLIGRTWNDPSVQQDIKFLPFKVVEKKT KPYIQVDIGGGQTKTFAPEEISAMVL  
TKMKETA EAYLGKKVTHAVVTVPAYFNDAQRQATKDAGTIAGLNMRIINEPTAAAIAYGLDKREGEKNILVFDL  
GGGTFDVSLTIIDNGVFEVVATNGDTHLGGEDFDQRM EHF IKLYKKKTGKDVRKDNRAVQKL RREVEKAKRALS  
SQHQARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLEDSDLKKS DIDEIVLVGGSTRIPKIQQLV  
KEFFNGKEPSRGINPDEAVAYGA AVQAGVLSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQI  
FSTASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKIT  
ITNDQNRLTPEEIERMVNDAEKFAEEDKKLKERIDTRNELESYAYSLKNQIGDKEKLGGKLSSEDKETMEKAVEE  
KIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTAEKDEL

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**FIGURE 2792**

CCTAAGTCGCCCGCAGAACTGCCACGTGGGGATGAGATTTGCTGGGCTGGTAGCGGCGGCTGCTGCGGGGAGGTCC  
CGCCACGTGAAGCCAGCCTAACTGAGCTCTGGACTTTGGGGACAGCTGTCAGTGGCCTAGGCCGAGGACACCA  
TGAAGCAACTGCCAGTCTTGGAACCTGGAGACAAGCCCAGGAAAGCAACATGGTACACCTTGACTGTCCCTGGAG  
ACAGCCCCCTGTGCTCGAGTTGGCCACAGCTGTTTCATATTTACCCCCAGTTGGTAATGCCAAGAGAGGGAAGGTCT  
TCATTGTTGGGGGAGCAAATCCAACAGAAGCTTCTCAGACGTGCACACCATGGATCTGGGAAAACACCAGTGGG  
ACTTAGATACCTGCAAGGGCCTCTTGCCCCGGTATGAACATGCTAGCTTCATTCCCTCCTGCACACCTGACCGTA  
TTTGGGTATTTGGAGGTGCCAACCAATCAGGAAATCGAAATTGTCTACAAGTCCTGAATCCTGAAACCAGGACGT  
GGACCACGCCAGAAGTGACCAGCCCCCACCATCCCCAAGAACATTCCACACATCATCGGCAGCCATTGGAAACC  
AGCTATATGTCTTTGGGGGTGGAGAGAGAGGTGCCAGCCCGTGCAGGACACGAAGCTGCATGTGTTTGACGCAA  
ACACTCTGACCTGGTCACAGCCAGAGACACTTGGAATCCTCCATCTCCCCGGCATGGTCATGTGATGGTGGCAG  
CAGGGACAAAGCTCTTCATCCACGGAGGCTTGGCGGGGGACAGATTCTATGATGACCTCCACTGCATTGATATAA  
GTGACATGAAATGGCAGAAGCTAAATCCCCTGGGGCTGCTCCAGCAGGCTGTGCTGCCCACTCAGCTGTGGCCA  
TGGGAAAACATGTGTACATCTTTGGTGAATGACTCCTGCAGGAGCACTGGACACAATGTACCAGTATCACACAG  
AAGAGCAGCATTGGACCTTGCTTAAATTTGATACTCTTCTACCCCCTGGACGATTGGACCATTCCATGTGTATCA  
TTCCATGGCCAGTGACGTGTGCTTCTGAGAAAGAAGATTCCAACCTCTCTCACTCTGAACCATGAAGCTGAGAAAG  
AGGATTCAGTTGACAAAGTAATGAGCCACAGTGGTGACTCACATGAGGAAAGCCAGACTGCTACACTGCTCTGTT  
TGGTGTGTTGGTGGGATGAATACAGAAGGGGAAATCTATGACGATTGTATTGTGACTGTAGTGGACTTAATAAAACC  
CACATTTTATTAAAAA

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**FIGURE 2793**

MKQLPVLEPGDKPRKATWYTLTVPGDSPCARVGHSCSYLPPVGNARGKVFIVGGANPNRSFSDVHTMDLGKHQW  
DLDTCKGLLPRYEHASFIPSCTPDRIWVFGGANQSGNRNCLQVLNPETRTWTTPEVTSPPPSPRTFHTSSAAIGN  
QLYVFGGGERGAQPVQDTKLHVFDANTLTWSQPETLGNPPSPRHGHVMVAAGTKLFIHGGLAGDRFYDDLHCIDI  
SDMKWQKLNPTGAAPAGCAAHSAMGKHVYIFGGMTPAGALDAMYQYHTEEQHWLLKFDLTLPPGRLDHSMCI  
IPWPVTCASEKEDSNSLTNLNHEAEKEDSVDKVMSHSGDSHEESQTATLLCLVFGGMNTEGEIYDDCIVTVVD

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**FIGURE 2794**

CTTCCTCTTTCCCTCGGAGCGGGCGGGCGGCGTTGGCGGCTTGTGCAGCAATGGCCAAGATCAAGGCTCGAGATCT  
TCGCGGGAAGAAGAAGGAGGAGCTGCTGAAACAGCTGGACGACCTGAAGGTGGAGCTGTCCCAGCTGCGCGTCGC  
CAAAGTGACAGGCGGTGCGGCCTCCAAGCTCTCTAAGATCCGAGTCGTCCGGAATCCATTGCCCCGTGTTCTCAC  
AGTTATTAACCAGACTCAGAAAGAAAACCTCAGGAAATTCTACAAGGGCAAGAAGTACAAGCCCCCTGGACCTGCG  
GCCTAAGAAGACACGTGCCATGCGCCGCCGGCTCAACAAGCACGAGGAGAACCTGAAGACCAAGAAGCAGCAGCG  
GAAGGAGCGGCTGTACCCGCTGCGGAAGTACGCGGTCAAGGCCTGAGGGGCGCATTGTCAATAAAGCACAGCTGG  
CTGAG

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**FIGURE 2795**

MAKIKARDLRGKKKEELLKQLDDLKVELSQLRVAKVTGGAASKLSKIRVVRKSIARVLTVINQTQKENLRKFYKG  
KKYKPLDLRPKKTRAMRRRLNKHEENLTKKKQQRKERLYPLRKYAVKA

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**FIGURE 2796**

GCCGTGTCGCCACCAATGGCTCCGCACCGCCCCGCGCCCGCGCTGCTTTGCGCGCTGTCCCTGGCGCTGTGCGCGC  
TGTCGCTGCCCCGTCCGCGCGGCCACTGCGTCGCGGGGGGCGTCCCAGGCGGGGGCGCCCCAGGGGCGGGTGCCCC  
AGGCGCGGCCCAACAGCATGGTGGTGGAACACCCCGAGTTCCCTCAAGGCAGGGAAGGAGCCTGGCCTGCAGATCT  
GGCGTGTGGAGAAGTTTCGATCTGGTGCCCGTGCCACCAACCTTTATGGAGACTTCTTCACGGGCGACGCCTACG  
TCATCCTGAAGACAGTGCAGCTGAGGAACGGAAATCTGCAGTATGACCTCCACTACTGGCTGGGCAATGAGTGCA  
GCCAGGATGAGAGCGGGGCGGCCCATCTTTACCGTGCAGCTGGATGACTACCTGAACGGCCGGGCGCTGCAGC  
ACCGTGAGGTCCAGGGCTTCGAGTCGGCCACCTTCCTAGGCTACTTCAAGTCTGGCCTGAAGTACAAGAAAGGAG  
GTGTGGCATCAGGATTCAAGCACGTGGTACCCAACGAGGTGGTGGTGCAGAGACTCTCCAGGTCAAAGGGCGGC  
GTGTGGTCCGTGCCACCGAGGTACCTGTGTCTGGGAGAGCTTCAACAATGGCGACTGCTTCATCCTGGACCTGG  
GCAACAACATCCACAGTGGTGTGGTTCCAACAGCAATCGGTATGAAAGACTGAAGGCCACACAGGTGTCCAAGG  
GCATCCGGGACAACGAGCGGAGTGCCCGGGCCGAGTGCACGTGTCTGAGGAGGGCACTGAGCCCCGAGGCGATGC  
TCCAGGTGCTGGGCCCCAAGCCGGCTCTGCCTGCAGGTACCGAGGACACCGCCAAGGAGGATGCGGCCAACCGCA  
AGCTGGCCAAGCTCTACAAGGTCTCCAATGGTGCAGGGACCATGTCGTCTCCCTCGTGGCTGATGAGAACCCCT  
TCGCCCAGGGGGCCCTGAAGTCAGAGGACTGCTTCATCCTGGACCAGGCAAAGATGGGAAAATCTTTGTCTGGA  
AAGGCAAGCAGGCAAACACGGAGGAGAGGAAGGCTGCCCTCAAAACAGCCTCTGACTTCATCACCAGATGGACT  
ACCCCAAGCAGACTCAGGTCTCGGTCTTCTGAGGGCGGTGAGACCCCACTGTTCAAGCAGTTCTTCAAGAACT  
GGCGGGACCCAGACCAGACAGATGGCCTGGGCTTGTCTACCTTTCCAGCCATATCGCCAACGTGGAGCGGGTGC  
CCTTCGACGCCGCCACCCTGCACACCTCCACTGCCATGGCCGCCAGCACGGCATGGATGACGATGGCACAGGCC  
AGAAACAGATCTGGAGAATCGAAGGTTCCAACAAGGTGCCCCTGGACCCTGCCACATATGGACAGTTCTATGGAG  
GCGACAGCTACATCATTCTGTACAACCTACCGCCATGGTGGCCGCCAGGGGCGAGATAATCTATAACTGGCAGGGTG  
CCCAGTCTACCCAGGATGAGGTGCTGTCATCTGCCATCCTGACTGCTCAGCTGGATGAGGAGCTGGGAGGTACCC  
CTGTCCAGAGCCGTGTGGTCCAAGGCAAGGAGCCCCGCCACCTCATGAGCCTGTTTGGTGGGAAGCCCATGATCA  
TCTACAAGGGCGGCACCTCCCGCGAGGGCGGGCAGACAGCCCCCTGCCAGCACCCGCCTCTTCCAGGTCCGCGCCA  
ACAGCGCTGGAGCCACCCGGGCTGTTGAGGTATTGCCCTAAGGCTGGTGCAGTGAACCTCCAACGATGCCTTTGTTC  
TGAAAACCCCTCAGCCGCCTACCTGTGGGTGGGTACAGGAGCCAGCGAGGCAGAGAAGACGGGGGCCAGGAGC  
TGCTCAGGGTGTGCGGGGCCAACCTGTGCAGGTGGCAGAAGGCAGCGAGCCAGATGGCTTCTGGGAGGCCCTGG  
GCGGGAAGGCTGCCTACCGCATCCCCACGGCTGAAGGACAAGAAGATGGATGCCCATCCTCCTCGCCTCTTTG  
CCTGCTCCAACAAGATTGGACGTTTTGTGATCGAAGAGGTTCTGGTGAGCTCATGCAGGAAGACCTGGCAACGG  
ATGACGTATGCTTCTGGACACCTGGGACCAGGTCTTTGTCTGGGTGGAAAGGATTCTCAAGAAGAAGAAAAGA  
CAGAAGCCTTGACTTCTGCTAAGCGGTACATCGAGACGGACCCAGCCAATCGGGATCGGCGGACGCCCATCACCG  
TGGTGAAGCAAGGCTTTGAGCCTCCCTCCTTTGTGGGCTGGTTCCTTGGCTGGGATGATGATTACTGGTCTGTGG  
ACCCCTTGGACAGGGCCATGGCTGAGCTGGCTGCCTGAGGAGGGGCGAGGGCCACCCATGTACCGGTCAGTGCC  
TTTTGGAAGTGCCTTCCCTCAAAGAGGCCTTAGAGCGAGCAGAGCAGCTCTGCTATGAGTGTGTGTGTGTGTGT  
GTGTTGTTCTTTTTTTTTTTTTTACAGTATCCAAAAATAGCCCTGCAAAAATTCAGAGTCCTTGCAAAATTGTC  
TAAATGTCAAGTGTGTTGGGAAATTAAATCCAATAAAAAACATTTGAAGTGTG

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**FIGURE 2797**

MAPHRPAPALLCALSLALCALSLPVRAATASRGASQAGAPQGRVPEARPNMVEHPEFLKAGKEPGLQIWRVEK  
FDLVPVPTNLYGDFFTGDAYVILKTVQLRNGNLQYDLHYWLGNECSQDESGAAAIFTVQLDDYLNGRAVQHREVQ  
GFESATFLGYFKSGLKYKGGVASGFKHVPNEVVVQRLFQVKGRRVVRATEVPVSWESFNNGDCFILDLGNNIH  
QWCGSNSNRYERLKATQVSKGIRDNERSGRARVHVSEEGTEPEAMLQVLGPKPALPAGTEDTAKEDAANRKLAKL  
YKVSNGAGTMSVSLVADENPFAQGALKSEDCFILDHGKDGKIFVWKGKQANTEERKAALKTASDFITKMDYPKQT  
QVSVLPEGGETPLFKQFFKNWRDPDQTDGLGLSYLSSHIANVERVPFDDAATLHTSTAMAAQHGMDDDGTKQKIW  
RIEGSNKVPVDPATYQQFYGGDSYIILYNRYRHGGRQGQIIYNWQGAQSTQDEVAASAILTAQLDEELGGTPVQSR  
VVQGKEPAHLMSLFGGKPMIYKGGTSREGGQTAPASTRLFQVRANSAGATRAVEVLPAKAGALNSNDAFVLKTPS  
AAYLWVGTGASEAEKTGAQELLRVLRAQPVQVAEGSEPDGFWEALGGKAAYRTSPRLKDKMDAHPPLRFACSNK  
IGRFVIEEVPGELMQEDLATDDVMLLDTWDQVFVWVGKDSQEEKTEALTSAKRYIETDPANRDRRTPITVVKQG  
FEPPSFVGWFLGWDDDYWSVDPLDRAMAELAA

[illegible]



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**FIGURE 2798B**

TTCTGCACCTCCTCTTTATGGGGACTCTGCTCTTCTACAGAATAGCAACCAAGGCCTTGAGAGGGAAAGCAACT  
CTCCTAAAGTCACATAGCAAGCAACCAGCACAGCCAGGGTGGGAGCCAGGCATCCGGGCACCGAGCCCAGTCCCG  
GCCTCCTCCCTACAAGATCACTCTCGCCTGACCTCCCTCTCAAGGACAGGAAAGGAGCAGAGACGCACTCTGAGC  
CTTATTAGGAAGACCTCAGGGACTCCCACTGAATCCACTGTGGCTACAGCGGCTGCTTCCACCACTGAAGTCCCC  
TCCAGGCTTCCCTGGGCAGCCAGGGCGGGGTTTAAGAGGACGACAGGTGTCTGTATTGCTCTACCTACCTAACAA  
GGCTGTGCAGGGTGAAGAGTGCTGCTCCGTGGGAAGGCGCTGGGACCAAGGCCGAAGCACTGGACAAAGAGAGCT  
ATGAGCACTACCTGTAAACAAAGGGCACAAGAATGTCAGCCTCAGGGGGAGTTCAAGGTCATCTGGTCAAATCCCC  
ATTTGATGTTTCAACCCCTTTCTCCCTCCACCAGGGGTCACACAATCAGTACTTGACACATCCAGCAACACC  
GCACTCACTACCTGCCAAGGCTGCAAGACCTGCTGCTGGAGGGTTTGGCTGCGTAAAAGAATTGTCCTAAGGATG  
CACTAAAATCTCTCTCTTCTTATGCCTTGTACCTGCTGGTATTAGCTCTGCCTCCTTTTGGGTCAGCCAGAACAG  
GTCIGTCCCCCTCTTTCTGATGGCTCTTTGGAGATTGAAGACAGTGATCCTGGGCCCCCTCAAGTCTTCTACAA  
ATTGTGCACCCCCTTTCTCCAGCTCTTCTGAGACCAGGGTTTCCGGTTCGCTCACCTGTTCCTGATCTGCT  
CCAGATGAAACCTGTCCCTACTGACAGCACAAGACCCAGAATTAGACAATCAGTCAAGCTCTATCCAGGACAGGG  
CAAGCAGGACTCTCACCTCCTTATTAGAGATATCATGCTTCTATTAATTGAGCCTAAAATCCCATTTGCATTTA  
AGGCAGCCCTATTGCATGGCTGAATTCAGTTTACAGTCAACTTCAGAGCTGTACGTTAGTACTCTGAAGTTATAT  
AAACTGGGCCCTCACTTAAGTGTGTAAGTTGAGCAAGC

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**FIGURE 2799**

AGGATGGCAATGCCAGTGAACCACGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGCCCAACTGACA  
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGA  
CTGGTGTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTCGAAA  
TGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAAGGTCAAGAATGTGTCTGTCAAGG  
ATGTTGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG  
TGATTATCCTGAACCATCCAGGCCAAATAAGCGCCGGCTATGCCCCTGTATTGGATTGCCACATGGCTCACATTG  
CATGCAAGTTTGCTGAGCTGAAGGAAAATGGCAAGGTCACCAAGTCTGCCCAGAAAGCTCAGAAGGCTAAATGAA  
TATTATCCCTAATACCTGCCACCCCACTCTTAATC

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**FIGURE 2800**

GTTTGCCGCCAGAACACAGGTGTCGTGAAAAC TACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAA  
CATTGTCGTCATTGGACACGTAGATTCGGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCGGTGGCAT  
CGACAAAAGACCATCCAGGCCAAATAAGCGCCGGCTATGCCCCGTATTGGATTGCCACATGGCTCACATTGCAT  
GCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCTTGA  
AGTCTGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCAC  
CTTTGGGTCGCTTTGCTGTTGCTGATATGAGACAGACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGG  
CTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCAGAAAGCTCAGAAGGCTAAATGA

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**FIGURE 2801**

GCCAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTGCGGCAAGTCCACCACT  
ACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTTGAAAAATTTGAGAAGGAGGCTGCTGAG  
ATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATT  
GATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTC  
ATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGTGAATTT  
GAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATA  
ATTGTCGGTGTAAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTTGTTAAGGAA  
GTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAAATTTCTGAAGTCTGGTG  
ATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTC  
GCTTTGCTGTTCTGTGATATGAGACAGACAGTTGCGGTGGGTGTC

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**FIGURE 2802**

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCTACAACCCGACACAGTAGCATTGTGCCAATTT  
CTGGTTGGAATGGTGACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTA  
AGGATGGCAATGCCAGTGGAAACCACGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGCCCAACTGACA  
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGA  
CTGGTGTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTCGAAA  
TGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAAGGTCAAGAATGTGTCTGTCAAGG  
ATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG  
TGATTATCCTGAACCATCCAGGCCAAATAAGCGCCGGCTATGCCCTGTATTGGATTGCCACATGGCTCACATTG  
CATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAACCACC  
TTTGGGTCGCTTTGCTGTTTCGTGATATGAGACAGACAGTTGCGGTGGG

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**FIGURE 2803**

CTTTTTCGCAACGGGTTTGCCGCCAGAACACAGGTGTCGTGAAACTACCCCTAAAAGCCAAAATGGGAAAGGAA  
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTGGGCAAGTCCACCCTACTGGCCATCTGATCTAT  
AAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTC  
AAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA  
TTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTCATCAAAAACATGATTACA  
GGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAG  
AATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTGTCGGTGTTAACAAA  
ATGGATTCCACTGAGACCATCCAGGCCAAATAAGCGCCGGCTATGCCCTGTATTGGATTGCCACATGGCTCACA  
TTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATC

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## FIGURE 2804

CTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCTGGGCAAGTCC  
ACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCT  
GCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATC  
ACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGA  
GACTTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCTTGATTGTTGCTGCTGGTGTGGT  
GAATTTGAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAA  
CAACTAATTGTCGGTGTTAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAACTACA  
AAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACCT  
TTGCTCCAGTCAACGTTACAACGGAAGTAAATCTGTGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTG  
GGGACAATGTGG

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**FIGURE 2805**

MGKEKTHINIVVIGHVDSGKSTTTGHLIYKCSSIDKRTIEKFEKETAEMGKGSFKYGWLDKLKAERERGITIDI  
SLWKFETSKYYVTITDAPGHRDFIKNMITGTSQADCAVPIVAAGVGEFEAGISKNGQTREHALLAYTLGVKQLIV  
GVNKMDSTEPYPYSQKRYEEIVKLVLVVFLLAEWRLVFSNPVWWSPLLQSTLQOK



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**FIGURE 2806**

ATGGCCCAACAAGCAAATGTCGGGGAGCTTCTTGCCATGCTGGACTCCCCCATGCTGGGTGTGCGGGACGACGTG  
ACAGCTGTCTTTAAAGAGAACCTCAATTCTGACCGTGGCCCTATGCTTGTAACACCTTGGTGGATTATTACCTG  
GAAACCAGCTCTCAGCCGGCATTGCACATCCTGACCACCTTGCAAGAGCCACATGACAAGCACCTCTTGACAGG  
ATTAACGAATATGTGGGCAAAGCCGCCACTCGTTTATCCATCCTCTCGTTACTGGGTGTCATGTCATAAGACTGCAG  
CCATCTTGGAAGCATAAGCTCTCTCAAGCACCTCTTTTGCCTTCTTTACTAAAATGTCTCAAGATGGACACTGAC  
GTCGTTGCTCTCACAACAGGCGTCTTGGTGTGATAACCATGCTACCAATGATTCCACAGTCTGGGAAACAGCAT  
CTTCTTGATTTCTTTGACATTTTGGCCGTCTGTTCATCATGGTGCCTGAAGAAACCAGGCCACGTGGCGGAAGTC  
TATCTCGTCCATCTCCATGCCAGTGTGTACGCACTCTTTCATCGCCTTTATGGAATGTACCCTTGCAACTTCGTC  
TCCTTTTGGCTTCTCATTACAGTATGAAAGAAAACCTGGAGACTTTTGAAGAAGTGGTCAAGCCAATGATGGAG  
CATGTGCGAATTCTCCGGAATTAGTGACTGGATCCAAGGACCATGAACTGGACCTCGAAGGTGGAAGAGATTA  
GAAACTCATGATGTTGTGATCGAGTGTGCCAAATCTCTGATGCCACAGAAGCCTCATATGAAGATGGCTAT  
TCTGTGCTCACCAAATCTCAGCCCGCTTTCCTCATCGTTCAGCCGATGTCACCACCAGCCCTTATGCTGACACA  
CAGAATAGCTATGGGTGTGCTACTTCTACCCCTTACTCCACGTCTCGGCTGATGTTGTTAAATATGCCAGGGCAG  
CTACCTCAGACTCTGAGTTCCCCATCGACAGGCTGATAACTGAACCACCACAAGCTACTCTTTGGAGCCCATCT  
ATGGTTTGTGGTATGACCCTCTCCAACCTTCTCTGGAATGTCCCACCTGATCTGTACACCCTTACAGTAAA  
GTCTTTGGTACAACCTGCAGGTGGAAGGAACCTCTGGAACCCAGCAACCTCTCCTCCTCCAGCCCCACTC  
TGTCATTCCGATGACTACGTGCACATTTCACTCCCCAGGCCACAGTCACACCCCCAGGAAGGAAGAGAGAATG  
GATTCTGCAAGACCATGTCTACACAGACAACACCATCTTCTGAATGACAGAGGATCAGAAGAGCCACCTGGCAGC  
AAAGGTTCTGTCACTCTAAGTGATCTTCCAGGGTTTTAGGTGATCTGGCCTCTGAAGAAGATAGTATTGAAAAA  
GATAAAGAAGAAGCTGCAATATCTAGAGAATTTCTGAGATCACCACAGCAGAGGCAGAGCCTGTGGTTCTCTCGA  
GGAGGCTTTGACTCTCCCTTTTACCGAGACAGTCTCCAGGTTCTCAGCGGAAGACCCACTCGGCAGCCTCCAGT  
TCTCAGGGCGCCAGCGTGAACCTGAGCCTTTACTCTCCTGGACAAGCTTGGGCCTGACACACCAAAGCAA  
GCCTTTACTCCCATAGACCTGCCCTGCGGCAGTGTGATGAAAGCCCTGCGGGAGACAGGGAATGCCAGACTTCT  
TTGGAGACCAGTATCTTCACTCCAGTCTTTGTAATAATCCACCTCCGACGAGAGTGGGCTTTGGAAGCGGGCAG  
CCTCCCCCGTATGATCATCTTTTGGAGGTGGCATTGCCAAAGACAGCCCATCATTTTGTATCAGGAAGACTGAG  
GAGCTGTTAAAGAAAGCAAAGGAAACACAGAGGAAGATGGTGTGCCCTCTACCTCCCAATGGAAGTGCTGGAC  
AGACTGATACAGCAGGGAGCAGACGCGCACAGCAAGGAGCTGAACAAGTTGCCTTTACCCAGCAAGTCTGTGAC  
TGGACCCACTTTGGAGGCTCTCCTCCTTCAAGATGAGATCCGCACCTCCGAGACCAAGTTGCTTTTACTGCACAAC  
CAGTTACTCTATGAGCGTTTTAAGAGGCAGCAGCATGCCCTCCGGAACAGGCGGCTCTCCGCAAGGTGATCAAA  
GCAGCAGCTCTGGAGGAACATAATGCTGCCATGAAAGATCAGTTGAAGTTACAAGAGAAGGACATCCAGATGTGG  
AAGGTTAGTCTGCAGAAAGAACAGCTAGATAAATCAGCTCCAGGAGCAGCGTGACACTATGGTAACCAAGCTC  
CACAGCCAGATCAGACAGCTGCAGCATGACCGAGAGGAATTCTACAACCAGAGCCAGGAATTACAGACGAAGCTG  
GAGGACTGCAGGAACATGATTGCGGAGCTGCGGATAGAAGTGAAGAAGGCCAACAAACAGGTGTGTCACTGAG  
CTGCTGCTCAGTCAGGTTTCCCAAAAGCTCTCAAACAGTGAGTCGGTCCAGCAGCAGATGGAGTTCTTGAACAGG  
CAGCTGTTGGTTCTTGGGGAGGTCAACGAGCTCTATTTGGAACAACCTGCAGAACAAAGCACTCAGATACCACAAAG  
GAAGTAGAAATGATGAAAGCCGCTATCGGAAAGAGCTAGAAAAAAACAGAAGCCATGTTCTCCAGCAGACTCAG  
AGGCTTGATACCTCCCAAAAACGGATTTTGGAACTGGAATCTCACCTGGCCAAGAAAGACCACCTTCTTTTGAA  
CAGAAGAAATATCTAGAGGATGTCAAACCTCAGGCAAGAGGACAGCTGCAGGCCGAGAGAGCAGGTATGAGGCT  
CAGAAAAGGATAACCCAGGTGTTTGAATTGGAGATCTTAGATTTATATGGCAGGTTGGAGAAAGATGGCCTCCTG  
AAAAAAGTTGAAGAAGAAAAGCAGAAGCAGCTGAAGCAGCAGAAAGAGGCTTGACTGTTGTAATGACGGGTGC  
TCAGATTCCATGGTAGGGCACAATGAAGAGGCATCTGGCCACAACGGTGAGACCAAGACCCCCAGGCCCCAGCAGC  
GCCCCGGGGCAGTAGTGGAAGCAGAGGTGGTGGAGGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC  
CCCCACACCAGAGGGCAGGCCCATTACAGCAGTCGGTGGGAGACGACTATGGGAGAAGCGTCTGCCAGCATCCCC  
ACCACTGTGGGCTCACTTCCAGTTCAAAAAGCTTCTGGGTATGAAGGCTCGAGAGTTATTTCTGTAATAAGAGC  
GAGAGCCAGTGTGATGAGGACGGCATGACCAGTAGCCTTTCTGAGAGCCTAAAGACAGAAGTGGGCAAGAGCTTG  
GGTGTGGAAGCCAAGATTCCCTGAACCTAGATGGCCTCACCCGTCTCCCCGACCCCGACAGTGTGGACAG  
CTACATATCATGGACTACAATGAGACTCATCATGAACACAGCTAA

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FIGURE 2807

MAQQANVGELLAMLDSPMLGVRDDVTAVFKENLNSDRGPMLVNTLVDDYYLETSSQPALHILTTLQEPHDKHLDDR  
INEYVGKAATRLSILSLGHVIRLQPSWKHKLSQAPLLPSLLKCLKMDTDVVLTITGVLVLTMLPMIPQSGKQH  
LLDFFDIFGRLLSSWCLKKPGHVAEVYLVHLHASVYALFHRLYGMYPCNFVSFLRSHYSMKENLETFEVVKPMME  
HVRIHPELVTGSKDHELDPRRWKRLETHDVVIECAKISLDPTASYEDGYSVSHQISARFPHRSADVTTSPYADT  
QNSYGCATSTPYSTSRMLMLNMPGQLPQTLSSPSTRLITEPPQATLWSPSMVCGMTTPPTSPGNVPPDLSPYYSK  
VFGTTAGGKGTPLGTPATSPPPAPLCHSDDYVHISLPQATVTPPRKEERMDSARPCLHRQHLLNDRGSEPPGS  
KGSVTLSDLPGLGDLASEEDSIEKDKEAAISRELSEITTAEAEPVVPARGGFDSPFYRDSLPGSQRKTHSAASS  
SQGASVNPEPLHSSLDKLGPDTPKQAFTPIDLPGSADESPAGDRECQTSLETSTFTSPCKIPPTRVGFGSGQ  
PPPYDHLFEVALPKTAHHFVIRKTEELLKAKGNTEEDGVPSTSPMEVLDRLIQGADAHSKELNKLPLPSKSDV  
WTHFGGSPPSDEIRTLRDQLLLLHNQLLYERFKRQQHALNRRLLRKVIKAAALEEHNAAMKDQLKLEKDIQMW  
KVSQKEQARYNQLQEQRDTMVTKLHSQIRQLQHDREEFYNQSQELQTKLEDCRNMIANELRIELKKANNKVCHTE  
LLLSQVSQKLSNSESQQQMEFLNRQLLVLEVNELYLEQLQNKHSDTTKEVEMMKAAYRKELEKNRSHVLQQTQ  
RLDTSQKRILELESHLAKKDHLLEQKKYLEDVKLQARGQLQAAESRYEAQKRITQVFELEILDLYGRLEKDGLL  
KKLEEEKAEAAEAERLDCCNDGCSDSMVGHNEEASGHNGETKTPRPSSARGSSGSRGGGSSSSSELSTPEK  
PPHQAGPFSSRWETTMGEASASIPTTVGSPLSSKSLGKMKARELFRNKSESQCDEDGMTSSLSESLKTELKDL  
GVEAKIPLNLDGPHSPPTPDVSGQLHIMDYNETHHEHS

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FIGURE 2808

GCTCCGGTTGCCTCCGACCTCGGCGCTGGGCGGGCGCGCCGGGCTGGGGAAGGGGCGGGCGGGGACCCGATG  
CGCGGGAGCGGAGGCCGAGATGGCTTCGGCGGGAGGCGAAGACTGCGAGAGCCCCGCGCCGGAGGCCGACCGTCC  
GCACCAGCGGCCCTTCCTGATAGGGGTGAGCGGCGGCACTGCCAGCGGGAAGTCGACCGTGTGTGAGAAGATCAT  
GGAGTTGCTGGGACAGAACGAGGTGGAACAGCGGCAGCGGAAGGTGGTCATCCTGAGCCAGGACAGGTTCTACAA  
GGTCCTGACGGCAGAGCAGAAGGCCAAGGCCTTGAAAGGACAGTACAATTTTGACCATCCAGATGCCTTTGATAA  
TGATTTGATGCACAGGACTCTGAAGAACATCGTGGAGGGCAAAACGGTGGAGGTGCCGACCTATGATTTTGTGAC  
ACACTCAAGGTTACCAGAGACCACGGTGGTCTACCCTGCGGACGTGGTCTGTTTGAGGGCATCTGGTGTCTTA  
CAGCCAGGAGATCCGGGACATGTTCCACCTGCGCCTCTTCGTGGACACCGACTCCGACGTGAGGCTGTCTCGAAG  
AGTTCTCCGGGACGTGCGCCGAGGGAGGGACCTGGAGCAGATTCTGACGCAGTACACCACCTTCGTGAAGCCGGC  
CTTCGAGGAGTTCTGCCTGCCGACAAAGAAGTATGCCGATGTGATCATCCCGGAGGAGTGGACAATATGGTTGC  
CATCAACCTGATCGTGACACATCCAGGACATTCTGAATGGTGACATCTGCAAATGGCACCAGGAGGGTCCAA  
TGGGCGGAGCTACAAGCGGACCTTTTCTGAGCCAGGGGACCACCCTGGGATGCTGACCTCTGGCAAACGGTCA  
TTTGGAGTCCAGCAGCAGACCCCACTGAGGGGCTGCCGAGCCTCAGGGCAGGTCTCCCGCCCGGCATGTGTGTT  
AGGGACTGAGCCTGGGGACGCCCACCCACCCCACTGCTTCCTCTCGGCGCACCCAGGGGAGTGTAGCAGCGA  
GGCCTTCCTCACTCAGGAGTGGAACTCAGATGTGTCACTCAGACTCAACTTGCTGGGACACTGACAGGCGTTCC  
TGAGGTTTTAGCCACTTAGGCTCGTTGCGGTTTAAAGATCCCTCTAGGTCACTGAGAAATGCCACAGAATGTGC  
AGGAAGCCTGGGAGGCTTCTGTGAGGAATGTGAGGCACATTATTGGGGAAATTGAGGAGACAGCCTAGACACTGG  
CTGGCCTGATGTTTTGTTGACAGTGAACCCACAGTGGGAGAGAGTTTTTCCAGTCTGATCTGGTCTTACACAC  
TCACACACATAACTCAAAGTTTTGTGAACAAGTACTTTCTTTTTTACATGTTACATGTCTCATGTTTTCTGT  
TTTTCTGTTTCATAACACAAGGCTGGTTGTGGCCTACAAACCTAATTCATGACCCAGTGGTTTGAGTCCAGCGT  
GGCCTACACGGATATGGGGAGCCACTGAGGGATGTTTTCCCCCTTGCTTGTGCCTTAAAGGCAGAGAAGCGAGG  
CGGATGCCCTGGAAGCACCCAGCATCACACCCAGGCTTGTGCGGGGCCAGGCTGGGAGCCCATGCAGTAGGGCAG  
AAGGCAGCGGAGGCCAGGTCTGTCCCGCTGGAGAACAGCGTCCACGCAGTCTGCCTGGGGTCAAGGCCCTCACT  
GACCTCAGGGGAGCCCCAAGGTGCTGTCTGTCTAGACAGGCTGTCCCACCCAGGGTGGCTAGTGGCCATATG  
CAGGGAATGGTGCTTCTGGCTGTGGCACGCACTGGATCACCCAGGTCCCAGCAGACATGGCCGCCCAAAGTCAGC  
AAGCCTCCTTTGTGCTATGTGGAGCTCACAGCCTCATATGTGAACACCCGTGTCTGGGTTGCCTGGGGTGATCCT  
CCCTCCTGCGTGGTGGCTGTCTGTGAAAGCATCCCTTGCCGCTGCCATGGGCAGCCCCAGCCCCCGTCCGTCCA  
GGCTCACCCACAGTAGTGATGCAGACGTGACGTGGGGGAAGGGGGCTGAGCCCTGTGGCTGGGTTCTGACAACTG  
TAACGGTTTTGTCGAGCTTAGGCCCTTTGGAGGGAGAATCAATAAATAACAAACACCAACTAC

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**FIGURE 2809A**

TGAACAGGGAGAGGCCATGAAACAGTTTGACCTGAACTATGGAAGTGCCATCATTGAAAATTGCGGGTCCAGCCC  
CGGGGAGGAGAGTGAGGTGGGTTCTATGGTGGGCGAAGGCTTCATCGAAGTCCTGACCAAGAAGCAGCGCCGCCT  
GCTGGAGGAAGAGAGAAGAAAGAGGAGCAGGCCGTGCAGGTGCCTGTCAAAGGTCGAGGCCTTTCTCCCGTAT  
TCCTCCTCGATTGCAAAAAAGCAGAACAACCTTATGTCTGGAGCAAGGTGACGTGACCGTGCCTGGCAGCAGCCT  
GGGCACTGAGATCTGGGAGAGCAGCAGCCAGGCTCTCCCTGTGCAGGCCCCAGCCAACGACTCCTGGAGGAAAGC  
TGTCAGTGCCTTCAGCAGCACCAGACTGGCTCTGCGGAGCAGGGTTTAAAGAGCAGCCAGGGAGATAGTGGCGT  
TGACTTGAGTGCCGAGTCTCGGGAGTCGTCTGCGACCTCCTCGCAGCGCAGCTCCCCATATGGGACTCTGAAGCC  
AGAGGAGATGAGCGGGCCCCGGCTGGCGGAACCAAGGCCGACAGCCACAAGGAGCAGGCTCCAAAGCCATCTGA  
GCAGAAGGATTGAGAACAAGGCTCTGGACAGAGCAAGGAGCACAGACCAGGACCCATCGGCAACGAGCGTTCTCT  
GAAAAACAGAAAGGGCTCGGAGGGGGCCGAGCGGTGCAAGGGGTGTCTGCCCGCTGTTAACGGGGTGGAGAT  
TCACGTGGACTCCGTGCTGCTGTGCCACCCATTGAATTTGGAGTCAGTCCAAAAGACTCCGATTTTCAGCTTGCC  
ACCTGGTTCTGCCTCTGGTCTACTGGGAGTCCAGTTGTTAAACTTCAGGATGCCTTGGCCAGTAATGCAGGGTT  
AACACAGAGTATCCCCATCCTGCGGCGGGACCATCACATCCAGAGGGCCATCGGTCTCTCCCCAATGTCTTCCC  
CACCGCCGACCTTACTCTGAAGATGGAGTCTGCGCGCAAGGCTTGGGAAAACCTCCCCAGTTTGGCGGAGCAGAG  
CTCTCCAGGCGGCGCTGGCTCAGGCATCCAGCCTCCATCCTCTGTGGGTGCCTCCAGCGGGGTCAACTACAGCTC  
CTTCCGTGGAGTGTCCATGCCACCCATGCCTGTGGCTCTGTAGCACCTTCTGCTTCTATGCCAGGCAGCCACCT  
CCCGCCCCGTGACCTGGATGGCCATGTGTTTGCAAGTCAGCCCCGGCTGGTTCTCAAACGATACCTCAGCAGCA  
GAGTTACCAACAGGCCCGCGCTGCCAGCAGATCCCGATCTCCCTTCACACATCTCTGCAGGCACAAGCTCAGCT  
TGGACTGAGGGGTGGGCTTCTGTGTCCAGTCCAGGAGATCTCAGCTCCTTGACGCCCTTCAGATCTCAGGT  
GTACATGCACCCAGCCTGTACCCGCCAGCACCATGATCCTCTCTGGGGGCACAGCCTTGAAGCCTCCATACTC  
GGCGTTCCAGGCATGCAGCCCTTGAGATGGTGAAGCCGAGTCTGGCTCACCTACCAGCCCATGAGCGGGAA  
CCAAGCCCTGTCTACGAGGGCCAGCTCAGCCAGGCTGTCTGGCCTGGGTGCCTCCAGATGTTGGACTCCAGCT  
CCCACAGCTGACCATGCCACTGCCTCGGTACGGCTCCGGGCAGCAGCCACTGATCCTGCCCCAGTCTATTAGCT  
GCCACCTGGGCAGAGCCTCTCCGTGGGGCCCCCGAAGGATTCCCTCCGCCCGGGTCCAGCCGCCAGTCTGTAA  
CACCAGCAGAGAGCCCTCTCAGATGGAGATGAAAGGCTTCCACTTTGCCGACAGTAAACAGAATGTCCCTTCAGG  
AGGCCCCGTGCCATCGCCACAGACCTACAGGCCTAGCTCTGCTAGCCCCAGTGGGAAGCCCTCTGGATCAGCAGT  
TAACATGGGCTCTGTGCAGGGACACTACGTGCAACAGGCAAAACACAGAGTGGATGAGAAACCCAGCCTGGGAGC  
CGTGAAGCTGCAGGAGGCCCCCTCGGCTGCCTCCAGATGAAGCGAACCAGGAGCGATCAAGCCTCGGGCTGTCAA  
AGTGGAGGAGAGTAAGGCCTGACAGTGCCTGGCTGCCACCTCGCCTCTCCCTACTGAGGACGGTGGCGCCATGCG  
GCCTCGACACAGCCGACACTCGGGAGCCTCACCAGATCCACCGTCCAAATGCGTGGCCCAGACTGAGAGACCTCC  
CTCCTCTCCACTCCCCGAAAGCTCCGTTGTCAACCAGCTTGCACCCGTGGATATATGGCATTGACCCGCTTGCTTT  
GATACGAAACAAAAAGCAGACGACTCCTTCATCCCATCTGCTCCTACCGTGACTGTGGAGTGACGCCTCCTGTG  
CAGTGCAGATTTGCCCTCCCTGCCCTCCTCCTGTCTGCGCGCAGCCAGGGCGCCTTCTCAGCAGTGCTTCCGG  
CCCAGCCGCCCATCCCTAGGCACAGTGATTTGGCAGCAGGGTCATTTTACTTTGAGGCTTTTGTGTTTAAATGT  
AGCCAAGGTTTTTACAAAGGGGAAAGGAAAAGAAAACAAAACGCAAGCTCCATGTGTATAGCTGAACTTTTATA  
TGTTTCTTGCCAGCCCCTCCGCTCCCTTCCATCTCTAGCCTCTGTCTGTTAGTTTGATACGTCACTGCAGTAC  
CTTAAGAGGTGACTCTTAAGAATGCATCCCCTCCTGATTCTCAGCTGGTTACCCCTTGAGGTTATTTGCAAAAA  
GAAAAGGAGGTTCTTGAGGGCACCGATTGCGAGCATTCTGGTGCCTGGCTCCCCGCTGGGAAGCGATGGGGTGC  
TCAGAGCAGCAGGCAGGTTGGGGGAGGGGGGGGTCATAGTTGGGTTCAGCTCCTGGCTTGATGAGCCCAGGGC  
GCTTACAGGCAGCCCATGAAGTTGATGACAGTTTTAGCATGAGAATCACACAGGGTCCCTGTCTGGGCTCCTCT  
AAAGCCAGTGGATGTGCTGGGCACCAGAGACAAATCATGGAGATGGCTGCTGGTGGCTCCCAGGTTGGCCAGAT  
GGGGTGAGCTGACATACCACAGGCCCATCCCAGGCCCGTGGGCTCTGCTTCTGGGGCTCCATACCCTGCCCTGC  
AGGGGTGCTGTGTTTTTACACATTTCTTTCCCTGAAGCCTTCTGTAACCTGTCATTTTCTTCTCTCTCTTCC  
GGAGCCTGTGCTTTCTCTGGACCTGTCTCCACCTCCCACACAGCTCATCGTGAACACCACTTGGTGATGGAGGG  
AGTGGACCCGTGTGTGGTCCCCAAGTGAGGCCACTGGGAGTTTGTCTTTTCTCTCTTTGCTTCACTCCCAGCAG  
CAGACCCAGGTTGTGAGGACAGGAGGGCCTGAGCTAAGCAGTAGGCATCAGTCTCGTTTGTCTTACAGCGCGGG  
GGCAGGTCCAGGGTGAGGCTGGGTGGAGGGCTGACCAAGGTCCAAAGGGCCTGCGCAGCCTCCGGGAGGGCAGCT  
TCTCCAGCCAGAGGCTTGTGTGAGCCATCGTGTGCTGGGCTTGTGTTTAAAGTAAGAAACAAGGAAATCACTCCAG

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**FIGURE 2809B**

ATTCTGTCATTCCAAGGAAAGGGAAGGGGACAGTTTCAGGTTTCTCAGCTGTTCTTAGGGGTCACTGAGCGTCTAC  
CTCCTCCTCCAGAGGAGGCTGGCTCAGAACACCTAGAGGAGGGGGCCGGGGATGCACCCCCACCAGAGGCTGCC  
TTCAGCGTCTCACGGGTGCAGGACAGCGCTCAGGCTTGGGCTCTAAGCTCTGTGTCTAGTGTAGAACATGGGGAA  
GGAGCATCTTAGGAAGTGTGAAGTAACCTTCTTACTGCTCTACAATTCTAAGGAAGCGGGAGAACGGCCTCCTA  
CCAACAGCGCCCCACCCAGAGCTGCCTGGGAAAGGGCAGTTTACTGAAAGGTGCTTTACTGTTACCTGCATCT  
TTCAGCAGCTCCCCCTCTGCCCTCACCTGGTCTTTTCCCTCTTTATCCCAAGCCTTTATGCTTGAGTCCCTTCCC  
CAGGGGCTGCCACCCGACAGTTCCAGGCATTCCCTACCTGAGCTTCTTGCTGCTTTTCCCTTCTCCACTGCAA  
GCGGCTGCTTGTGGGGCCTGGGATGAGCCCTCTCTGTCCCACCGGCCCTCCTTGCCAAGCCATTCTGGGTGAG  
TTCAGGCCTGCGGGAGCCACACATTTCATCTCCACCTGGACACTTGAGCCGCATGGCCAGACCCCTCCACCTGAT  
GCGGTGGTGCCTGTGATTTGTCAAAAGAAAGCCTTCTGGATGCTGTTAAGATGTACCCTTCAGGTGAACCTGGTA  
TCAGACCCACAGTACTTGCTGTTTGAGAAAAAATAAAAAACAAAAGGTACCTGTTCTCCAGCCCTTTTCTCTTA  
CCTGGTATTTCTTCTTTCTCTCTCCCCACCCCAAATAAAAAACAAAAACACTAGAAATTTATTTATATGTAT  
TGATGTTGTAGGTCTAGGTGAAAAAAAAGAAGTAAATGTTTCACTGCTCTATTTATATATAATGTCTGAATTAA  
TTCTGTGCAGGAAAGGCCAGGAAATTGCATGTGAAGTTCGGTGCAGTCACCACCTGTGTGTGACCTGAGCTGCAG  
TCTCTTCGCTGAGATGCAGGTTTTAAATGAGACTTGGGGGGCTGAGGGCAGGCCTCAGGCCTCCAGCGCCCCAA  
CCCCCTCTTGGTCTAATGAAATGCAGTTCTTAGTGCAGAGATGTTTTAAGGTGCAATATATCTCTTCTTTCCCG  
TGGTTTTAGAGCCAAGCTCAAGGTAGTAGGACGTAGGGTCTTATTTTGTTTTCAAACCCCCATCTCAGAGCGCA  
GATACATGCAGAGGCTTCTGCCAGGATACCACGGGGCCTTAGTGGGAACAGGTGGAGACCAGCACTTCCCTTTCC  
TGCTGCTGAGGTAGGATTGGGGGGTCAAGCCCACTCACTTTTGCTGTTAAAGTTGCCCTCCTGACGCTGGCA  
GCTCTGCCTTGGTCACTGGGGATGCGGCTCGTTTGCTCAGCCACCAGTGGCCTTGCGGTATTGTCCACCATCCACT  
AGAGTGGGATGAAGTCCAGAGTGTGGGTATACATCTCAGATGCCATCTACCCACTGGGGACTTCAATGCCAGCT  
GCATTTGGTTTGGTTTTCTTAACTGTTGGCTTCTCCCCACAGCGTTTTTTGTTTTTTTTTAAACATTCATATTGT  
TTTCAAATTTGGAATTCATAGACACTCTGGCTCTAGGTTCTTAAAGGGGAAACAAAAGATGACTTTATTTTAC  
ATTCAAGAAAATCAGTTCAGTTCCAAAGCTGTGGTCTTCCAGCCACTTCTAGGGACACTGGGGAACCTTGTTAA  
ACGTTGACATCAGTGCTCTCCAGCCGTGCTGTACCCCTCTATCTTCTGGATCTGCCTTCGCGATGGTCAGTGAC  
AGCTTCTGGAAGCTGAGCACACACAGGTGCACAGCCATGCTGTGGTCTGGCCTGCTACGGCAGCATGGCAGCTCT  
GGTGGAGCCTTCTCCCTTGCCATTTGGTTCCCCTGTGCCAAGTAGCTGCAGGCTGCCCTCAAATCTTCAATTGT  
CCCTTTTCACTTCTCTGCAGAACAGCCTGGGTTAGAGGGTCTGCTGGAAATGGCCTTTGAAGACCAAGGATACCA  
GGATGTGTGCACTCTGTCTGTGTTCTGTGATGAATGGGAAACGTAGGCTTCCAGAAAGCCAGCTCTCTTCTGAAAT  
GTGACGGACCTAAGCAGGAAGTCATCCAGGACAGGAGTGGCTCAGTGTGGGGATGGACGCTGTGCCCCAGCCAT  
GCTCCACCAGGGCCACCAATGTGTAGTTGGCTGGTGGTCTTCCGGCATGTGAGACCTGCTCTTCACTGTTTCCAC  
CCCACTTGGTGGCCTCCAGGATGGTAGTGGCACCCCTCAGAGCCCCATCTTCAAGCATGTTCTGAAGCCTCAGAGTG  
GAAATTCCTGCTAAGGCTCTGTGTGGACGCCTTCTCCCGTGATCTAAAGGGGACACTGTACTCAAGCTTTTGAC  
CTCATGCCTTGTGTAGTAAAAAGGATTTGGGGGTTTTGTTTGGTTCTTGAGAGGGTTGTGTTTTGTTTTGTTT  
CCTTTTGTATGTTTTGGCCTTCTCTTTGTCTTCCATGTAGACCAGATATTTGAAAGGGCAGACGATGGCT  
AGAGGTGTAATGTGCAGCTTGTATACGGTATTTTGGGAACTTACCTTGGATGGGAAATCGAATCGTGGATTCT  
ACCAGGCCGGTGTGTCACACTCACCTCGCCCTTCCCTCCGGTTCAGTACCTATTGTTTCTCTTTCAAATAT  
GTGATTGTACTAGCTCTTTCCATATGAAAGAATTCTCCTTATTTAAATAAAAAAGTTTAAAAAGAT

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**FIGURE 2810**

MKQFDLNYGSIIENCSSPGESEVGS MVGEGFIEVLTKKQRRLLLEEERRKKEQAVQVPVKGRGLSSRIPPRFA  
KKQNNLCLEQGDVTVPGSSLGTEIWESSSQALPVQAPANDSWRKAVTAFSSTETGSAEQGFKSSQGD SGVDLSAE  
SRESSATSSQRSSPYGTLKPEEMSGPGLAEPKADSHKEQAPKPSEQKDSEQSGSQSKEHRPGPIGNERSLKNRKG  
SEGAERLQGAVVPPVNGVEIHVDSVLPVPPIEFGVSPKDSDFSLPPGSASGPTGSPVVKLQDALASNAGLTQSIP  
ILRRDHHIQRAIGLSPMSFPTADLTLMESARKAWENSPSLPEQSSPGGAGSGIQPPSSVGASSGVNYSSFGGVS  
MPPMPVASVAPSASMPGSHLPPLYLDGHVFASQPRLPQTIPQQQSYQQAAAAQQIPISLHTSLQAQQLGLRGG  
LPVSQSQEIFSSLQPFRRSQVYMHPSLSPSTMILSGGTALKPPYSAFPGMQPLEMVKPQSGSPYQPMMSGNQLVY  
EGQLSQAAGLGASQMLDSQLPQLTMPLPRYGSGQQPLILPQSIQLPPGQSLSVGAPRRIPPPGSQPPVLNTSREP  
SQMEMKGFHFADSKQNVPSGGPVPSPTQTYRPSASPSGKPSGSAVNMGSVQGHYVQQAQQRVDEKPSLGAVKLQE  
APSAASQMKRTGAIKPRAVKVEESKA

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**FIGURE 2811**

CTCACCTCCCGGAGGCTCTGCTGGTGCAGGCCCCGCATTGGAGGGCTCGATTGGCTGCCCGGCTGGCACTGACGT  
CCCCTTGGAGCTGGGTGGCAGAGGAGATAAACAGCCATGTGCAACTCTCCACACTATATTTAACAGCTGCGGCGG  
AGAAGGCAGGGAGGCAGCCACGGTGGCGGCTCTGGGGGAGCTCTTGTCTTCGGGGAGAAGGCCCTTGGAGCCGG  
GCTGGCATCGGCCTTCTCGGGGTGAGCGAGGTACCATGCCAGCTTCCCAGAGCCGGGGCCCGTGGCCGGACCGC  
AACAACTCTCTCAACCGGGCTGAGTTCTGTCCCTGAACCAGCCCCCAAGGGGGGCCCGAGCCCCGCAGCTCG  
GGCAGAAAGGCCTCGGGCCCATCAGCACAGCCCCACCTGCTGGTGACGGGGCCAGAGAGCGACGCCAGTCACAG  
CAGCTGCCAGAGGAGGACTGCATGCAGCTGAACCCCTCCTTCAAGGGCATCGCCTTCAACTCCCTGCTGGCCATC  
GATATCTGTATGTCCAAGCGGCTGGGGGTGTGCGCTGGCCGGGCGGCGTCTGGGCCAGTGCCCGCTCCATGGTC  
AAGCTCATCGGCATCACGGGCCACGGCATCCCTGGATCGGAGGCACCATCCTCTGCCTGGTGAAGAGCAGCACA  
CTGGCCGGCCAGGAGGTGCTCATGAATCTGCTCCTGGCCCTGCTCCTGGACATCATGACGGTGGCCGGCGTGCAG  
AAGCTCATCAAGCGGCGCGGCCCGTACGAGACGAGCCCCAGCCTCCTGGACTACCTACCATGGACATCTACGCC  
TTCCCGGCCGGGCACGCCAGCCGCGCGCCCATGGTGTCCAAGTTCTTCTCAGCCACCTGGTGTGGCGGTGCC  
CTGCGTGTGCTGCTGGTGTCTGGGCCCTCTGCGTGGGCGTGTCCCGCGTGATGATCGGCCGCCACCACGTACG  
GACGTCTCTCCGGCTTTGTCTCGGCTACCTCCAGTTCCGTCTGGTGGAGCTGGTCTGGATGCCCTCCAGCACC  
TGCCAGATGCTCATCTCTGCCTGGTGAAGCGCCCCGCGGCCACACAAGCCTCTGGGGGAGGGCTGGCCCTAGA  
GAAGGGGAGGGGGTGGCGAGGTGGCGGGCGTGGGTGGAACAGAGCGGCCAGGAGTCAGAGCGGCCACCCCCACC  
TCATCTTCCCTCCTGGCTGGAGGCTGGCGAACCAGGCCACCCCTCCCGGAGACAAGCGTGTGTGGCAGTGCCA  
GGCCTCTTGCCCTTTGCTTGGACTCCAAGTCTCTCTTAGGCAGCCAGGACCCACCCATGGGGACAGCCCTAT  
TTAGCTTCTGCTCTGGGAACAGCAAAAATCAGGATGGTGGGAGGGGCGAGTCTTGTCTTGTCTTTTCATCATCA  
TGACTGTTGAGTTCTTGGCTGTGCCCATCACGCCACAGCACGACGCTGCCAAAATGCCCCAACCTACTGCCTG  
ATGCAGGTGCCATTGCCATTAGCGGTCTATCGACAGCTTAGGGCAGCACTTTCCAACGGGTGCCCATGGGACACCA  
GCCTGCGAGATGCTTTTGGGGAAAGGGGTTTTGTGTTCAATACTTTCGGAAGTGCTGCACACTCTGTCCCA  
AGTTGGACATTACAAAGGCCGTTATTGCCGTAAAGGCTCTGACAAGCCCTATAGAAAAGCTTCTTGCTAAACCT  
TCTTTAACCCATGTTTTCTAACTTATTTGACCACAGAACCCTTTCTTGGGGAACAGCTATTAACCCCCAAGGA  
ATTATTGGTTCTCTCAAGTGCGTTTTTGGGAGCTGCTGCCAGAGAGCTAAAGGGCCTGGGGTGTGAGCTGACTCTCC  
TCTGGGGAGGCCGGGTGCACAGCCACAGCCGAGGAAAGTGCTGGCCACCGCCCGTGGGCATCGATGAGGCTTT  
GGCCCCCAGGGGCCGACTCCGTGTGACCTAATAGGTGTTTTCCAAGTCACCCGTTTTGGATGTGCATTTTCATGT  
GACAATACAGATGACATGCAATGG

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**FIGURE 2812**

MQLNPSFKGIAFNSLLAIDICMSKRLGVCAGRAASWASARSMVKLIGITGHGIPWIGGTILCLVKSSTLAGQEV  
LNLLALLLDIMTVAGVQKLIKRRGPYETSPSLDYLTMDIYAFPAGHASRAAMVSKFFLSHLVLAVPLRVLLVL  
WALCVGLSRVMIGRHHVTDVLSGFVIGYLQFRLVELVWMPSSCQMLISAW



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**FIGURE 2813**

GGCCAAGGGATTGCTGCAGCCCTCATCCACCTTCCAAGCACTGGAAACAAACATTGGAGACCAAGGTCTCCAGAA  
GCTTCCACTGACTGCTGTTGGCTGCACCAGGCAACAGGGTCTGGCTCTGTCACCCAGGCTGGAGTGCAATGGTAT  
GATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGAT  
TACAGGTCCAGCTGGGAGCTCCCCGACCTCCAGGAGGGCAAGATCCAAGCCATCAGCGACTCGGATGGGGTGAAC  
TACCCCTGGTACGGCAACACCACAGAGACCTGCACCATCGTGGGCCCCACCAAGAGGGACTCCAAGTTCATCATC  
AGCATGAATGACAACCTTTACCCAGCGTCACATGGGCCGTGCCCGTCAGCGAGAGCAACGTGGCCAAGCTCACC  
AATATCTACCGGGACCAGAGCTTCACCACCTGGCTGGTGGCCACCAACACCTCCACCAACGACATGATCATCCTG  
CAGACGCTGCACTGGCGCATGCAGCTCAGCATCGAGGTGAACCCCAACCGGCCCTGGGCCAGCGCGCCCGGCTG  
CGGGAGCCCATCGCCCAGGACCAGCCAAAATCCTGAGCAAGAATGAGCCCATCCCGCCAGCGCCCTGGTCAAG  
CCCAATGCCAACGATGCCCAGGTCTCATGTGGCGGCCAAGTACGGGCAGCCGCTGGTGGTGATCCCGCCCAAG  
CACCGGTGACAGCCAGGACCACCCGCTAGGTTAGACTCACAATAATA

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**FIGURE 2814**

MNDNFYPSVTWAVFVSESNVAKLTNIYRDQSFTTWLVATNTSTNDMIILQTLHWRMQLSIEVNPNRPLGQRA<sup>1</sup>RLR  
EPIAQDQPKILSKNEPIPPSALVKPNANDAQVLMWRPKYGQPLVVIPPKHR

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FIGURE 2815A

GCTTCAGGTCAAATTAGGGCTTTGGGTCAAATCAGGGCTACCTGGTCTGGGAGAGGCACACTTCTAACTGCTGAT  
GCCACCCTCAAAGGGTCTCCAGAAGCTTCCACTGACTGCTGTTGGCTGCACCAGGCAGTGAGTATCAGTACATTT  
AATCATCACAAAAACCGGCAGGCAGATGTTGGCGGATTGTCTGTGGGCTGCTGAAGAGCTGGTAGAGCTCAGCG  
CGTCTGTGACTGGACCACAGTGCAGTAGCTGGGGCTGACAGTGGACCCTGGGCTGCTGCACCCGCTGCAACCCC  
CAGGTGGAGGGATCCACGCAGCCTGGTGACGATTGGCCCTGGCCCTGAGCCATGCCCCGCTGACGCAGTGCTG  
TCTGCCAGCCTGGGAGGCTCCTCACCTGTCTTTGCCTGAGCCAGGGCCTGGGAGTTTCAGGACTGGGAAAGGAAA  
GAAAACCCCAAGGCTGGGGTCAGGAAGAGGAGGGCTATTTTGCTGCTCAGTCCTGCTCCCCCAAACCAGACCTTC  
AGCTCTTTGCAAACGAAAGAGGGGGCAAGGCCAAAGCGGGTTCTTATGCAAGTTTGCTTCCTGCCCTGAAAAA  
CCAAAAAACGGAACCTTTTCCAAGCAAGTGTAAAGCACTGTGTGAGGACAGAGTGGGCGTTTCTTCTGAAATA  
GGAGACTAGGCCCCAGTGGGCAAAGAGACCCTGACCCGCTTCTCCATCTGTGCGGGGAATGAATGAGCAGGCT  
CACCCTGTTGTATCTGCTGCTGTGGGGCCCCCTAGATCTTAGGAATTGCTGGGTACTTCCGACAGTG  
AGGTTGTCTGAGCTGCCTGCAGGTTCCCTGAGTCTGGGTACTCAGGGGCTGGGCAGGAGATGCCATTAAAGCAGG  
TGTTACTCTAATGAGTGAGCTTTTCAATGAGATGAACAGGAAAATTAGCAAAATCATGTTCTAATCATTCCTCC  
TGCGGCGGGCCCCAATTTTGCTAACTGTTAACATTATATGATGCATAAGTAGGGGAATGCATTTTTTAAATATATGG  
TAAAGCCTATGTAACATTTTATAAAATTGACCATTTATTTTATTATTAATTTTTTTTTTTTAAAGACAGGGTCT  
GGCTCTGTACCCAGGCTGGAGTGCAATGGTATGATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCGA  
TTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGCCTGTGTTGGAACATCCTTCCTTCTTAAGGCTGAAGA  
ACATTCCATTGTCCAGCTGGGAGCTCCCCGACCTCCAGGAGGGCAAGATCCAAGCCATCAGCGACTCGGATGGGG  
TGAATAACCCCTGGTACGGCAACACCACAGAGACCTGCACCATCGTGGGCCCCACCAAGAGGGACTCCAAGTTCA  
TCATCAGCATGAAATGACAACCTTTACCCAGCGTCACATGGGCCGTGCCCGTCAGCGAGAGCAACGTGGCCAAGC  
TCACCAATATCTACCGGGACCAGAGCTTCACCACCTGGCTGGTGGCCACCAACACCTCCACCAACGACATGATCA  
TCCTGCAGACGCTGCACTGGCGCATGCAGCTCAGCATCGAGGTGAACCCCAACCGGCCCTGGGCCAGCGCGCCC  
GGCTGCGGGAGCCCATCGCCAGGACCAGCCCAAAATCCTGAGCAAGAATGAGCCCATCCCGCCAGCGCCCTGG  
TCAAGCCCAATGCCAACGATGCCAGGTCTCATGTGGCGGCCCAAGTACGGGCAGCCGCTGGTGGTGATCCCGC  
CCAAGCACCGGTGACAGCCAGGACCACCGCTAGGTTAGACTCACAATAATAATACCCTGAAAACAAACTCA  
GACTCACTCTTCAGTCATTACAGCAAGATACAACCATCTACCCCTCTCCAGCGGGCGGATCTCACTGTGCTGATGC  
CCCCGGAAGGCCTCCCCGGCTCTCGGCACCTGCTTCCTTTACAGGGAGAGGGGAGATCTAAGCAGGACAGACAGA  
CCCCACGTGCGCCCTCAGGGTGACCTCTGGTCTCCTTGCCCTCTCCTTTTCTCAGTTTCAGTCGCTCACTTGTA  
CAGATTCCCTGAAACACTGCTTTTTCCGTTTTTAAAAAACTCCTCTTTTGGGGGCTCAGGGGCAGGAGAGGG  
GGAGCTGATTAGGAGGGAAGCTCCAGCCCCGATCAAAGAGACAGATCCACACTGCTGCCGATTGTGGCGCTGG  
CCGGCCTTCCCCCAGGTCCCTCCGCCCTCTGTCTATGCGGCCTTATGTAGACTTGCTTTGCCAACTTTTGCCCTT  
AAGCTGAATTGAAAGGAAGAAAACCAATCGGAGAAAGAAAGCAGGATCTCTTTTCTACCGGACTTTTCTCTTCT  
GCCAGAGGTGGAGGGAGGGTTGGGGTCGCCCGCAGAGTCTCTTGAGCCCTTCTTCCCGTTGTCTTGGGAGAAG  
GGTGAGGATGGGCATTTAGACCCGAAACAGCIGCTCACTCTTTCTTTTGGCAGAAATAAAACACAGGTAGAT  
TCTGCCTGAACAGCCCCCTTCTCTCCCTCCACCCCAAGGTGCTATCCCTGCACCTGCGGAGAGGGGCTGTGAGCTC  
TGGCGGGGGGTGGCTCCACAGTCGCTGGCCTCTTCTCCCTCTCTTCCCAGCAGCCTTAACCTTCCCTTGGGCG  
GCTCTAGGAGGAGAGAGGCAGGCTCCTGTGAGCCAGGGAATTTTACCCTCTCAGTCCTCAGGACCCACCCCA  
GTTGAGTCCCTGGCCCTTCTCCAGGTGTGTGGCTTTTCTTCTCCATCCACACTGGTCCCAAATGCCTGGGGG  
CCGGCCACCTGGACCGCCGACACAGCCTCAATGTTAGTCTCAAAGGTAAGGAAGGCATTACGTCCCTTCTTG  
CAGGGCATTTTAAAGACTTGAATCGGGTGGGCCCCGGCCCTGTGGCTGGCTGGCCCTGGTGTACTGTAAAGGG  
CCAAGACAGGGCTCGTTCTCAGGGGCGCCCTCCCAGGCCCTCAGGGCAGCGGGACGGTGAGTCAGGCTCTGGG  
TGCCACAGTGATGGAGGTGGAAGGCACCAAGCTCTAGGGAAGTCTTGGGAGGCAGTCGGCCGAGCCCTGCTTC  
CTGTCTCAAATAAGTGAATCCAGGCCAAGGGCTGGGAGGGCTGGGTGGGCTTATCGTCGAGAGGGTTAGAGCC  
ACTCTGGAGGCTGGGCTGGCACAGTGAGAGCAACAGGTGAGGACAGACGTCTGGAAGCCCATCCCTGGGACCTG  
CCCTCCCTCGGTCCAGGTCACTGGAGCTCAGGGCTTACTTAGTCTGACCCATTGTGCCAGGGTTCTGAGCAG  
TGTCGGCCTTGTGGCCACTTGCAGGGGCTATTAGGGGACATCCCGCTGAAGCCACGCTCCTTCCAGCTTGCCAAA  
CCCACAGCTACCCGCCCGGACCCACACTCAGCCTAATAATTATCAAGCACAGAAAACCGTCCATTTAGAAAAAT  
AATCCATTTCTGCTGCAGATGAGCCACTTGTAAGAGTCTCCGTGACAGCGTGGGACGGTGTGGGAACCAAGTCC

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**FIGURE 2815B**

CTGCCCTGCTCCTTTGTCCACGGGCTATTGCGTTTATTCAAGGGGTGCTTAATGACCGTTTAGCCACTGCCGTCG  
GTCTCCGGGCCCAGCTCGTGCCAGGAGGCTGTCTGGGACACACTGGGCTGGAGCTGCCGGCTGGCACGGTGCTC  
AGGGGGCCCCGTGATGGGGGCCAGGACCTCCCCGCAGAACTGCAGGTTCTCTTGTGAGGATGGAGGCCGTGCCAC  
CCCGAAAGGCAGTAGCCTTAGGGGAACAGTGGGTCCCAGCTGCATGTCTGAGGATGGGTGGGGACAGGGCTGGGA  
CTCAGCTTTCATTCACTGGAGACTTCTCCACTCAGGTCTTTGTTGCACTAAAGCAGGGACAGGACCCTGGGGGT  
CAGGAAGCGGGTCTCAGGCCGCTGGTTTATTCCCTGGAGGTGGGGCTGGAGACCAGAATGGAAAGGGGCTTCCTGA  
GCTGCTAGGGGGTGAAGGACCCCGAACCCGCATTTCTTGAGTGAGAGCAAACACTCGAGGCAGGAGCCAGCACC  
CCTCCCACTGCATGCCCGGCCCCCAGCCACCTTGCCCCCTGACCCACCTTCACCCGTGCCCTTCTTTCTGCCC  
TTCCTCACCGAAGAAGGGCTAGGAACACCCTGGAGAGGCTGCAGGTCCGGCCACGGACGCTCAGCTGAGCCCCG  
TCTGCTCCTTCAGCCTCCTTGCTCATGTTGGAGCACAGGCCCCAGGCTTCTGCCAGGGCCCCGATTCTTCTTAT  
GTCCTCCAGCCCCGCCCTGGCGTGGACATCCACTCACTCCTTCCAGCAATAAGAACCGTCCTTGGTCTGTGGAGAG  
TACTGTGAAACAAACCAATGCACTTACCAGGAGGCACAAGACTCTTGAAGAAGATGTACAATGAACCTTTTTTTT  
TTTACAAAAACAAAAAGCAAATATTCATAAAGAGAAATAAAATGTAATTTTAAAGT

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**FIGURE 2816**

MNDNFYPSVTWAVPVSESNVAKLTNIYRDQSFTTWLVATNTSTNDMIILQTLHWRMQLSIEVNPNRPLGQARLR  
EPIAQDQPKILSKNEPIPPSALVKPNANDAQVLMWRPKYGQPLVVIPPKHR

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**FIGURE 2817A**

AGGGGAGGAAGTTTGTGTGTCGAGCGGCTGGGTTCCGTGGGCAAGGCCGTGGGAGGCAGCGTTGGCTGCTTCGAC  
ACACTGAGGGCGGCGCGATGGGAGACGAGATGGATGCCATGATTCCCAGCGGGAGATGAAGATTTTCAGTTTA  
GAGCGCTAAAGAAGGTGAGAATCTTTGACTCCCTGAGGAATTGCCAAGGAACGCTCGAGTCTGCTTGCTGTGT  
CCAAACAAATATGGTCTGGTCTTCGCTGGTGGAGCCAGTGGCTTGCAAGATTTTCTACTAAAAATCTTCTTATTC  
AAAAATAACCCGGAGATGATCCCAACAAATAGTTGATAAAGTCCAAGGCTTGCTAGTTCCTATGAAATTCCCAA  
TCCATCACCTGGCCTTGAGCTGTGATAACCTCACACTCTCTGCGTGCATGATGTCCAGTGAATATGGTTCCATTA  
TTGCTTTTTTTGATGTTGCGACATTCTCAAATGAGGCTAAACAGCAAAAACGCCCATTGCTATCATAAGCTTT  
TGAAAGATGCAGGAGGCATGGTGATTGATATGAAGTGGAAACCCACTGTCCCTCCATGGTGGCAGTTTGTCTGG  
CTGATGGTAGTATTGCTGTCTGCAAGTCACGGAAACAGTGAAAGTATGTGCAACTCTTCTTCCACGGTAGCAG  
TAACCTCTGTGTGCTGGAGCCCCAAAGGAAAGCAGCTGGCAGTGGGAAAACAGAATGGAACGTGGTCCAGTATC  
TTCCTACTTTGACAGGAAAAAAGTCATTCTTGTCTCCGTTTTATGAGTCAGATCATCTGTCTCAGAGTTCTGG  
ATGTGCTGTGGATTGGTACCTACGTCTTCGCCATAGTGTATGCTGCTGCAGATGGGACCCTGGAAACGTCTCCAG  
ATGTGGTGATGGCTCTACTACCGAAAAAAGAAGAAAAGCAGCCAGAGATATTTGTGAACTTTATGGAGCCCTGTT  
ATGGCAGCTGCACGGAGAGACAGCATCATTACTACCTCAGTTACATTGAGGAATGGGATTTAGTGCTGGCAGCAT  
CTGCGGCTTCAACAGAAGTTAGTATCCTTGCTCGACAAAGTGATCAGATTAATTGGGAATCTTGGCTACTGGAGG  
ATTCTAGTCGAGCTGAATTGCCTGTGACAGACAAGAGTGATGACTCCTTGCCCATGGGAGTTGTCTGACTACTATA  
CAAACCAAGTGGAATCACCATCAGTGATGAAAAGACTCTTCTCTGCTCCAGTTCTCATGTTACTTTCAACAG  
ATGGTGTGCTTTGTCCATTTTATATGATTAATCAAATCCTGGGGTTAAGTCTCTCATCAAACACCAGAGCGAC  
TTTCATTAGAAGGAGAGCGACAGCCCAAGTCACCAGGAAGTACTCCCACTACCCCAACCTCCTCTCAAGCCCCAC  
AGAAACTGGATGCTTTCGAGCTGCAGCCCTGCCTCTCTGCCACCTTCATCACCTGCTGCTCCCATGGCACTT  
TTTCTTTGCTTCCIGCTGGTGGAGCCCCACTGTGTTCTCTTTGGTTCTTCATCTTTGAAGTCATCTGCTACGG  
TCACTGGGGAGCCCCCTTCATATTCCAGTGGCTCCGACAGCTCCAAAGCAGCCCCAGGCCCTGGCCCCATCAACCT  
TCTCTTTTGTTCCTTCTIAAAGCCTCCCTAGCCCCCACCCTGCAGCGTCTCCTGTGGCTCCATCAGCTGCTT  
CATTCTCCTTTGGATCATCTGGTTTTAAGCCTACCCTGGAAAGCACACCAGTGCCAAGTGTGTCTGCTCCAAATA  
TAGCAATGAAGCCCTCCTTCCACCCCTCAACCTCTGCTGTCAAAGTCAACCTTAGTGAAAAGTTTACTGCTGCAG  
CTACCTCTACTCCTGTTAGTAGCTCCAGAGCGCACCCCGATGTGCGCATTCCTTCTGCTCCAGCCAGCTG  
CTTCTGGACCACTCAGCCACCCACACCTCTCTCAGCACCACCTAGTTCCGTGCCATTGAAGTCCCTCAGTCTTGC  
CCTCACCATCAGGACGATCTGCTCAGGGCAGTTCAAGCCCAAGTGCCCTCAATGGTACAGAAATCACCCAGGATAA  
CCCCTCAGCGGCAAAGCCAGGCTCTCCCCAGGCAAAGTCACTTCAGCCTGTCTGTTGCAGAAAAGCAGGGACATC  
AGTGAAAAGATTAGATCCTGTAATGGCTGGAATTGGGGAGGAGATTGCACACTTTCAGAAAGAGTTGGAAGAGT  
TAAAGCCCCAAGCTTCCAAAGCCTGTTTCCAAGTGGGCACTTCTGAGGAGATGAAGATGCTGCGAACAGAAATCAG  
ATGACTTGCATACCTTTCTTTTGGAGATTAAAGAGACCACAGAGTCGCTTCATGGAGATATAAGTAGCCTGAAAA  
CACTTTTACTTGAGGGCTTTGCTGGTGTGAGGAAGCCAGAGAACAAATGAAAGAAATCGTGACTCTGGTTATC  
TGCAATTTGCTTTATAAAAGACCACTGGATCCCAAGAGTGAAGCTCAGCTTCAGGAAATTCGGCGCCTTCATCAGT  
ATGTGAAATTTGCTGTCCAAGATGTGAATGATGTTCTAGACTTGGAGTGGGATCAGCATCTGGAACAAAAGAAAA  
AACAAAGGCACCTGCTTGTGCCAGAGCGAGAGACACTGTTTAAACCCCTAGCCAACAATCGGGAAATCATCAACC  
AACAGAGGAAGAGGCTGAATCACCTGGTGGATAGTCTTCAGCAGCTCCGCCTTTACAAACAGACTTCCCTGTGGA  
GCCTGTCTCGGCTGTTCTTCCAGAGCAGCATTACAGTTTTGACAGTGACCTGGAAAGCCTGTGCAATGCTT  
TGTTGAAAACCACCATAGAATCTCACACCAAATCCTTGCCCAAAGTACCAGCCAACTGTCCCCCATGAAACAGG  
CACAACCTGAGAACTTCTTGGCCAAGAGGAAGACCCACCAAGTGAGATCCACTGCTCCAGCCAGCCTGTCTCGAT  
CAGCCTTTCTGTCTCAGAGATATTATGAAGACTTGGATGAAGTCAGCTCAACGTCTATCTGTCTCCAGTCTCTGG  
AGAGTGAAGATGCACGGACGTCTGTAAAGATGACGAGGCAGTGGTTCAGGCCCCCTCGGCACGCCCCCGTGGTTC  
GCACTCCTTCCATCCAGCCAGTCTCTTGGCCCATGCAGCACCTTTTGCTAAATCTCACCTGGTTCATGGTTCTT  
CACCTGGTGTGATGGGAACCTCAGTGGCTACATCTGTAGCAAAATTATCTCAAGGGGCCGATAGCACAAATGC  
TTGCCACGAAAACCGTGAAACATGGTGACCTAGTCTTCCACCCCATCTCAGCCCCGAGGCAGCTGCCGCAG  
CAGCACTCAGGCGGCAGATGGCCAGTCAGGCACCAGCTGTAAACACTTTGACTGAATCAACGTTGAAGAATGTCC  
CTCAAGTGGTAAATGTGCAGGAATTGAAGAATAACCTTGCAACCCCTTCTACAGCCATGGGTTCTTCAGTGCCTT  
ACTCCACAGCCAAAACACCTCACCCAGTGTGACCCAGTGGCTGCTAACCAAGCCAAGCAGGGGTCTCTAATAA

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**FIGURE 2817B**

ATTCCTTAAGCCATCTGGGCCTACACCAGCATCCGGTCAGTTATCATCTGGTGACAAAGCTTCAGGGACAGCCA  
AGATAGAAACAGCTGTGACTTCAACCCCATCTGCTTCTGGGCAGTTTCAGCAAGCCTTTCTCATTCTCCATCAG  
GGACTGGCTTTAATTTTGGGATAATCACACCAACACCGTCTTCTAATTTCACTGCTGCACAAGGGGCAACACCCT  
CCACTAAAGAGTCAAGCCAGCCGGACGCATTCTCATCTGGTGGGGGAAGCAAACCTTCTTATGAGGCCATTCTG  
AAAGCTCACCTCCCTCAGGAATCACATCCGCATCAAACACCACCCAGGAGAACCTGCCGCATCTAGCAGCAGAC  
CTGTGGCACCTTCTGGAAGTCTCTTTCCACCACCTCTAGTAAGCTGGAAACCCACCGTCCAAGCTGGGAGAGC  
TTCTGTTTCCAAGTTCTTTGGCTGGAGAGACTCTGGGAAGTTTTTCAGGACTGCGGGTTGGCCAAGCAGATGATT  
CTACAAAACCAACCAATAAGGCTTCATCCACAAGCCTAACTAGTACCCAGCCAACCAAGACGTCAGGCGTGCCCT  
CAGGGTTTAATTTTACTGCCCCCGGTGTTAGGGAAGCACACGGAGCCCCCTGTGACATCCTCTGCAACCACCA  
CCTCAGTAGCACCACCAGCAGCCACCAGCACTTCCTCAACTGCCGTTTTTGGCAGTCTGCCAGTCACCAAGTGCAG  
GATCCTCTGGGGTCATCAGTTTTGGTGGGACATCTCTAAGTGCTGGCAAGACTAGTTTTTCATTGGAAGCCAAC  
AGACCAATAGCACAGTGCCCCATCTGCCCCACCACCAACTACAGCTGCCACTCCCCTTCCAACATCATTCCCCA  
CATTGTCAATTTGGTAGCCTCTGAGTTCAGCAACTACCCCTCCCTGCCTATGTCCGCTGGCAGAAGCACAGAAG  
AGGCCACTTCATCAGCTTTCCTGAGAAGCCAGGTGACAGTGAGGTCTCAGCATCAGCAGCCTCACTTCTAGAGG  
AGCAACAGTCAGCCAGCTTCCCCAGGCTCTCCGCAAACCTCTGACTCTGTTAAAAAAGAACCTGTTCTTGCCC  
AGCCTGCAGTCAGCAACTCTGGCACTGCAGCATCTAGTACTAGTCTTGTAGCACTTTCTGCAGAGGCTACCCAG  
CCACCACGGGGGTCCCTGATGCCAGGACGGAGGCAGTACCACCTGCTTCTCCTTTTCTGTGCTGGGCAGACTG  
CTGTACAGCAGCTGCTATCTCAAGTGACGCCCTGTGGCCGTCGAAACATCAAGTACCCCATAGCCTCCAGCA  
CCACGTCCATTGTTGCTCCCGGCCATCTGCAGAGGCAGCAGCATTTGGTACCGTCACTTCTGGCTCATCCGTCT  
TTGCTCAGCCTCCTGCTGCCAGTTCTAGCTCAGCTTTCAACCAGCTCACCAACAACACAGCCACTGCCCCCTCTG  
CCACGCCCCGTGTTTGGGCAAGTGGCAGCCAGCACCGCACCAAGTCTGTTTGGGCAGCAGACTGGTAGCACAGCCA  
GCACAGCAGCTGCCACACCACAGGTGAGCAGCTCAGGGTTTAGCAGCCCAGCTTTTGGTACCACAGCCCCAGGGG  
TCTTTGGACAGACAACCTTCGGGCAGGCCCTAGTCTTTGGGCAGTCGGCGAGCAGTGCTGCAAGTGTCTTTTCCT  
TCAGTCAGCCTGGGTTCAAGTCCGTGCCTGCTTTCGGTCAGCTGCTTCCCTCCACTCCCACATCCACCAGTGGAA  
GTGTCTTTGGTGCCGCTCAAGTACCAGTAGCTCCAGTTCTTCTCATTGACAGTCTTCTCCCAACACAGGAG  
GGGGGCTGTTTGGCCAAAGCAACGCTCCTGCTTTTGGGCAGAGTCTGGCTTTGGACAGGGAGGCTCTGTCTTTG  
GTGGTACCTCAGCTGCCACCACAACAGCAGCAACCTCTGGGTTTCAGCTTTTGCCAAGCTTCAGGTTTTGGGTCTA  
GTAATACTGGTTCTGTGTTTGGTCAAGCAGCCAGTACTGGTGGAAATAGTCTTTGGCCAGCAATCATCCTCTTCCA  
GTGGTAGCGTGTTTGGGTCTGGAAACACTGGAAGAGGGGGAGGTTTCTTCAGTGGCCTTGGAGGAAAACCCAGTC  
AGGATGCAGCCAACAAAAACCCATTTCAGCTCGGCCAGTGGGGGCTTTGGATCCACAGCTACCTCAAAATACCTCTA  
ACCTATTTGGAAACAGTGGGGCCAAGACATTTGGTGGATTTGCCAGCTCGTCGTTTGGAGAGCAGAAAACCCACTG  
GCACTTTCAGCTCTGGAGGAGGAAGTGTGGCATCCCAAGGCTTTGGGTTTTCTCTCCAAACAAAACAGGTGGCT  
TCGGTGTGCTCCAGTGTTCAGCAGCCCTCTACTTTTGGGGGATCCCCTGGGTTTGGAGGGGTGCCAGCATTCG  
GTTAGCCCCAGCCTTTACAAGCCCTCTGGGCTCGACGGGAGGCAAGTGTTCGGAGAGGGGACTGCAGCTGCCA  
GCGCAGGAGGATTGGGTTTGGGAGCAGCAGCAACACCACATCCTTCGGCACGCTCGCGAGTCAGAATGCCCCCA  
CTTCGGATCACTGTCCCAACAGACTTCTGGTTTTGGGACCCAGAGTAGCGGATTCTCTGGTTTTGGATCAGGCA  
CAGGAGGTCTGTCCAGGTTTTTGGTGGCTGGCGAAGCTGAGGGCGTGTGAGCAGGCCTTCGATCCCTGGGACCA  
ACCGCATCCTCAGCTTCTTCCCGAGAAATGCTGGAGCAGGCTGTTAGACCGACGTTGCCATCAAAACACATAC  
ACCCAGAAAGAAACAACAGAAACCAAACTCAAGGCGCATGATTACTTGTGTTTATATTTTCATGTTGGGTTTTT  
CCTCCCACTATTAAACAGTCTGTTTCCGTAC

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FIGURE 2818

GCCGGAGCCCGGACCAGGCGCCTGTGCCTCCTCCTCGTCCCTCGCCGCGTCCGCGAAGCCTGGAGCCGGCGGGAG  
CCCCGCGCTCGCCATGTGCGGCGAGCTCAGCAACAGGTTCCAAGGAGGGAAGGCGTTCGGCTTGCTCAAAGCCCCG  
GCAGGAGAGGAGGCTGGCCGAGATCAACCGGGAGTTTCTGTGTGACCAGAAGTACAGTGATGAAGAGAACCTTCC  
AGAAAAGCTCACAGCCTTCAAAGAGAAGTACATGGAGTTTGACCTGAACAATGAAGGCGAGATTGACCTGATGTC  
TTTAAAGAGGATGATGGAGAAGCTTGGTGTCCCAAGACCCACCTGGAGATGAAGAAGATGATCTCAGAGGTGAC  
AGGAGGGGTGACGTGACACTATATCCTACCGAGACTTTGTGAACATGATGCTGGGGAACGGTGGCTGTCTCAA  
GTTAGTCATGATGTTTGAAGGAAAAGCCAACGAGAGCAGCCCCAAGCCAGTTGGCCCCCTCCAGAGAGAGACAT  
TGCTAGCCTGCCCTGAGGACCCCGCCTGGACTCCCCAGCCTTCCCACCCATACCTCCCTCCCGATCTTGCTGCC  
CTTCTTGACACACTGTGATCTCTCTCTCTCTCATTGTTTGGTCAATTGAGGGTTTGTTTGTGTTTTTCATCAATGT  
CTTTGTAAAGCACAAATTATCTGCCTTAAAGGGGCTCTGGGTGCGGGAATCCTGAGCCTTGGGTCCCCTCCCTCT  
CTTCTTCCCTCCTTCCCCGCTCCCTGTGCAGAAGGGTGACATCAAACCAAAAAGTAGAGGGGGCAGGGCCAGGG  
CAGGGAGGCTTCCAGCCTGTGTTCCCTCACTTGAGGAACAGCACTCTCCATCCTTTCAGAAAGTCTCCAAGC  
CAAGTTCAGGCTCACTGACCTGGCTCTGACGAGGACCCAGGCCACTCTGAGAAGACCTTGAGTAGGGACAAGG  
CTGCAGGGCCTCTTTCGGGTTTCTTGGACAGTGCCATGGCTCCAGTGCTCTGGTGTACCCAGGACACAGCCAC  
TCGGGGCCCCGCTGCCCGAGTGATCCCCACTCATTCCACACCTCTTCTCATCTCAGTGATGTAAGGTGGGAA  
GGAAAGGAGCTTGGCATTGGGAGCCCTTCAAGAAGGTACCAGAAGGAACCTCCAGTCTGCTCTCTGCGCCACAC  
CTGTGCAGGCAGCTGAGAGGCAGCGTGCAGCCCTACTGTCCCTTACTGGGGCAGCAGAGGGCTTCGGAGGCAGAA  
GTGAGGCTGGGTTTTTGGGGGAAAGGTGAGCTCAGTGCTGTCCACCTTTTAGGGAGGTTACTGAGGGGACCAG  
GATGGGAGAATGAGGAGTAAAATGCTCACGGCAAAGTCAGCAGCACTGGTAAGCCAAGACTGAGAAATACAAGGT  
TGCTTGCTGACCCCAATCTGCTTGAACCTGACTCTGCTTCTCTCATTGTTCTCTACCTACTCACATAATT  
CACTCATTGACTCACTCATTACAGATATTTATTGACCTGCTATTATAAGCTTACATCCTCCCATGTTGTCT  
GGCATGTGCAGTATACAGGTCTAACTCATCTCTCCCCAGATCTCTCAGAACCTTGAGCTTGGGAATTGAAGTGG  
GGTCACTGTGTCTTTCTTATGGACTCGCAGGATTTTAGAACCTAATGCACCTGGAGGGTAGCTGGGCCAGA  
CTTCTCATTTCACAGGTGAGGAGACTGGTGCCCCACAGGGATTAAGTGCCCTTGCCCAAGGTGAGGCTTATCTCCA  
GAGGGAGGTGCCCTGGACTGGGGCCAGATGTTAGGGACCTGCCTACACCTCATTTCAGTGTTGGCTGCCTT  
AGTTAGTTATGAGAACAGGGAAGGGCTGGGAAGAGACAGCCTCCAAGGTCAACACTTGAGAGAGGGTTTCACTTGC  
TCTGAAGACCCTGGTCCAGGATTCGCCCTCTCCCATGCCTTCAAGTCAGCATCAGGCTTAGGGCAAAGACCAGGC  
CTCTGAAGCTGCCTCTTGTAAATTCATGCAGGAAGATGTCAAAGTCAGCCCCATCTTGGCTGATCAGGGTGTTTCTAG  
CCTTAACCCACCTGTGTTCTGAAGTCTCTTACCCTACCTGCTCAGGACTGAGACAGTTATTCACTGAACATATT  
TATTAAGCACTTGCTGTAGGCCAACAGTTAAGAATCCAATAATGAAATGGACAGATTATGGAACCTTAGAGTCCA  
ATAGGAAAGTGAGACCCAGACAATGACAATGAGATAAATGTTAGGAAGGGGGAGGTATGGGGTGACTTCCCTGCA  
GTCTGGGGGCTTAGATGGGGCCAAGACTGGGTGAGAGTCTTGGCAGAGCCTTGGCAACACCTTAAGTGGACAGG  
ACTGGGAGGTCTTGGTGGTTGGAGCCAACGTGGGTTCCTGCGGCTCCTTAGTCACCTCTGATAGCAGATTGAGG  
GAGGAAAACAGGTAAGGCATGAGGAAATGGCCAGGTGGGTTAACCCACTGGTTTTCAACCAAGTTCAGGAATGAGG  
TTATTTGGCCATGACTGGCTGATCTTGAGCTCAAGGATCTGCTTCAAATGCACACAGGCCTAGTTGAAGTTAAA  
CCCCAGCAAAACATTCCCTCCCTGTAAATGGAAAATCCTACTTCTACCCCCACCCTGCCCTGTTTTTTGTTTTTTT  
TTTCCCCAAGATCATTAGATGTCTCACCCCTCCTCACTGCCTCTCTCTCTGGGACAGGCTGGGACCTTTGAGG  
AAGATAAAGCCTTCCTTCACTACCCATCATATTCAGTGTCCCTGTTCTCACTCAGAGAGGAAGGCAGAACCAGT  
CAGGCTTATTTAGTAAGTTCCACAGTTCTACAAGACTGCAGGAATTCTCCTTAAGGGAGGAGAGCAAGCAGGTG  
TGGCCCCAGCTTCTGGAAATGGCAGAAGAGAGGGTTTTCTCATTGAATGGGGGTGGGGCTCGTGTGTCTTGGGA  
AACCCCATCAGTCCCTTCATTTCTTGAGACTCAACTCCTGGGAGGAGAGGGTCTCAAGAGTTGTCCCTGGAAGGA  
GGGCGGGGGCAGTCTGCATCTAATTCAGGTTGTGGCTCTTGGTTCTAGGACTCTTACTTCTCTGGCTAAGGGCTC  
AGCTTCTTGGGACTTCAACCATCTTCTTTCTGAAAGACCAAAATCTAATGTAACCAAGTAACGTGAGGACTGCCAAG  
TATGGCTTTGTCCCTATGACTCAGAGGAGGGTTTGTGCGGCAAAATTCAGGTGGATGAAGTATGTGTGTGCGTGTG  
CATGGGAGTGTGCGTGGACTGGGATATCATCTCTACAGCCTGCAATAAACCAAGACAACTT



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**FIGURE 2819A**

ATGGGGCAGCAGCCTGGAAAAGTACTTGGGGACCAAAGAAGGCCAAGCTTGCCTGCCCTGCATTTTATCAAAGGA  
GCAGGGAAGAAGGAATCATCGAGGCATGGGGGTCCACACTGCAATGTTTTGTGGAACAAGCCCTTCAGCGGCCA  
GTAGCATCTGACTTTGAGCCTCAGGGTCTGAGTGAAGCGCTCGTTGGAACCTCAAGGAAAACCTTCTCGCTGGA  
CCCAGTGAAAATGACCCCAACCTTTTCGTTGCACTGTATGATTTTGTGGCCAGTGGAGATAACACTCTAAGCATA  
ACTAAAGGTGAAAAGCTCCGGGTCTTAGGCTATAATCACAATGGGGAATGGTGTGAAGCCCAACCAAAATGGC  
CAAGGCTGGGTCCCAAGCAACTACATCACGCCAGTCAACAGTCTGGAGAAACACTCCTGGTACCATGGGCCTGTG  
TCCCGCAATGCCGCTGAGTATCTGCTGAGCAGCGGGATCAATGGCAGCTTCTTGGTGCCTGAGAGTGAGAGCAGT  
CCTGGCCAGAGGTCCATCTCGCTGAGATACGAAGGGAGGGTGTACCATTACAGGATCAACACTGCTTCTGATGGC  
AAGTCTACGTCTCCTCCGAGAGCCGCTTCAACACCTTGGCCGAGTTGGTTCATCATCATTCAACGGTGGCCGAC  
GGGCTCATCACCAGCTCCATTATCCAGCCCCAAAGCGCAACAAGCCCACTGTCTATGGTGTGTCCCCAACTAC  
GACAAGTGGGAGATGGAACGCACGGACATCACCATGAAGCACAAGCTGGGCGGGGGCCAGTACGGGGAGGTGTAC  
GAGGGCGTGTGGAAGAAATACAGCCTGACGGTGGCCGTGAAGACCTTGAAGGAGGACACCATGGAGGTGGAAGAG  
TTCTTGAAAGAAGCTGCAGTCATGAAAGAGATCAAACACCCTAACCTGGTGCAGCTCCTTGGGGTCTGCACCCGG  
GAGCCCCGTTCTATATCATCACTGAGTTCATGACCTACGGGAACCTCCTGGACTACCTGAGGGAGTGCAACCCG  
CAGGAGGTGAACGCCGTGGTGTCTGTACATGGCCACTCAGATCTCGTCAGCCATGGAGTACCTGGAGAAGAAA  
AACTTCATCCACAGAGATCTTGCTGCCCGAAACTGCCTGGTAGGGGAGAACCCTTGGTGAAGGTAGCTGATTTT  
GGCTTGAGCAGGTGATGACAGGGGACACCTACACAGCCCATGCTGGAGCCAAGTTCCCATCAAATGGACTGCA  
CCCAGAGCCTGGCTACAACAAGTTCTCCATCAAGTCCGACGCTCTGGGCATTGGAGTATTGCTTTGGGAAATT  
GCTACCTATGGCATGTCCCCTTACCCGGAATTGACCTGTCCAGGTGTATGAGCTGCTAGAGAAGGACTACCGC  
ATGGAGCGCCAGAGGCTGCCAGAGAAGGTCTATGAACCTCATGCGAGCATGTTGGCAGTGGAAATCCCTCTGAC  
CGGCCCTCCTTTGCTGAAATCCACCAAGCCTTTGAAACAATGTTCCAGGAATCCAGTATCTCAGACGAAGTGAA  
AAGGAGCTGGGGAACAAGGCGTCCGTGGGGCTGTGAGTACCTTGCTGCAGGCCCCAGAGCTGCCACCAAGACG  
AGGACCTCCAGGAGAGCTGCAGAGCACAGAGACACCCTGACGTGCCTGAGATGCCTCACTCCAAGGGCCAGGGA  
GAGAGCGATCCTCTGGACCATGAGCCTGCCGTGTCTCCATTGCTCCCTCGAAAAGAGCGAGGTCCCCCGAGGGC  
GGCTGAATGAAGATGAGCGCCTTCTCCCCAAAGACAAAAGACCAACTTGTTTCAGCGCCTTGATCAAGAAGAAG  
AAGAAGACAGCCCCAACCCCTCCCAAACGCAGCAGCTCCTTCCGGGAGATGGACGGCCAGCCGGAGCGCAGAGGG  
GCCGGCGAGGAAGAGGGCCGAGACATCAGCAACGGGGCACTGGCTTTCACCCCTTGGACACAGCTGACCAGCC  
AAGTCCCCAAAGCCCAGCAATGGGGCTGGGGTCCCCAATGGAGCCCTCCGGGAGTCCGGGGGCTCAGGCTTCCGG  
TCTCCCCACCTGTGGAAGAAGTCCAGCACGCTGACCAGCAGCCGCCTAGCCACCGGCGAGGAGGGCGGTGGC  
AGCTCCAGCAAGCGCTTCTGCGCTCTTGCTCCGCTCCTGCGTTCCCATGGGGCCAAGGACACGGAGTGGAGG  
TCAGTCACGCTGCCTCGGGACTTGCAGTCCACGGGAAGACAGTTTGACTCGTCCACATTGGAGGGCACAAAAGT  
GAGAAGCCGGCTCTGCCTCGGAAGAGGGCAGGGGAGAACAGGTCTGACCAGGTGACCCGAGGCACAGTAACGCCT  
CCCCCAGGCTGGTGAAAAGAATGAGGAAGCTGCTGATGAGGTCTTCAAAGACATCATGGAGTCCAGCCGGGGC  
TCCAGCCCGCCCAACCTGACTCCAAAACCCCTCCGGCGGCAGGTACCCGTGGCCCTGCCTCGGGCCTCCCCAC  
AAGGAAGAAGCTGGAAAGGGCAGTGCCTTAGGGACCCCTGCTGCAGCTGAGCCAGTGACCCCCACCAGCAAAGCA  
GGCTCAGGTGCACCAGGGGGCACCAGCAAGGGCCCCGCGGAGGAGTCCAGAGTGAGGAGGCACAAGCACTCCTCT  
GAGTCGCCAGGGAGGGACAAGGGGAAATTGTCCAGGCTCAAACCTGCCCGCGCGCCCCACCAGCAGCCTCTGCA  
GGGAAGGCTGGAGGAAAGCCCTCGCAGAGCCCGAGCCAGGAGGCGCGGGGAGGAGTCTTGGGCGCAAAGACA  
AAAGCCACGAGTCTGGTTGATGCTGTGAACAGTGACGCTGCCAAGCCCAGCCAGCCGGGAGAGGGCCTCAAAAAG  
CCCGTGCTCCCGGCCACTCCAAAGCCACAGTCCGCCAAGCCGTCCGGGACCCCATCAGCCAGCCCCCGTTCCC  
TCCACGTTGCCATCAGCATCCTCGGCCCTGGCAGGGGACCAGCCGTCTTCCACCGCCTTCATCCCTCTCATATCA  
ACCCGAGTGTCTTTCGGAACCCCGCCAGCCTCCAGAGCGGATCGCCAGCGCGCCATACCAAGGGCGTGGTC  
CTGGACAGCACCGAGGCGCTGTGCCTCGCCATCTCTAGGAACCTCCGAGCAGATGGCCAGCCACAGCGCAGTGCTG  
GAGGCCGGCAAACCTCTACACGTTCTGCGTGAGCTATGTGGATTCCATCCAGCAAATGAGGAACAAGTTTGCC  
TTCGAGAGGCCATCAACAACTGGAGAATAATCTCCGGGAGCTTCAGATCTGCCCGGCGACAGCAGGCAAGTGGT  
CCAGCGGCCACTCAGGACTTCAGCAAGCTCCTCAGTTCGGTGAAGGAAATCAGTGACATAGTGACAGGAGTAGCAG  
CAGTCAGGGGTGAGGTGTAGGCCCCGTGGAGCTGCCTGCAGCACATGCGGGCTCGCCCATACCCGTGACAGTGG  
CTGACAAGGGACTAGTGAGTCAGCACCTTGGCCAGGAGCTCTGCGCCAGGCAGAGCTGAGGGCCCTGTGGAGTC

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**FIGURE 2819B**

CAGCTCTACTACCTACGTTTGCACCGCCTGCCCTCCCGCACCTTCCTCCTCCCCGCTCCGCTCTCTGTCTCTCGAAT  
TTTATCTGTGGAGTTCCCTGCTCCGTGGACTGCAGTCGGCATGCCAGGACCCGCCAGCCCCGCTCCACCTAGTGC  
CCCAGACTGAGCTCTCCAGGCCAGGTGGGAACGGCTGATGTGGACTGTCTTTTTCATTTTTTCTCTCTGGAGCC  
CCTCCTCCCCCGGTGGGCCTCCTTCTTCCACTTCTCCAAGAATGGAAGCCTGAACTGAGGCCTTGTGTGTCTCAGG  
CCCTCTGCCTGCCTCCCTGGCCTTGCCCGTCGTGTCTGAAGACATGTTCAAGAACCGCATTTCGGGAAGGGC  
ATGCACGGGCATGCACACGGCTGGTCACTCTGCCCTCTGCTGCTGCCCGGGTGGGGTGCCTCGCCATTTCCTC  
ACGTGCAGGACAGCTCTTGATTGGGTGGAAAACAGGGTGCTAAAGCCAACCAGCCTTTGGGTCTGGGCAGGTG  
GGAGCTGAAAAGGATCGAGGCATGGGGCATGTCTTTCCATCTGTCCACATCCCCAGAGCCCAGCTCTTGCTCTC  
TTGTGACGTGCCTGTGAATCCTGGCAAGAAAGCTTGAGTCTCAAGGGTGGCAGGTCACTGTCACTGCCGACATC  
CCTCCCCCAGCAGAATGGAGGCAGGGGACAAGGGAGGCAGTGGCTAGTGGGTGAACAGCTGGTGCCAAATAGCC  
CCAGACTGGGCCCAGGCAGGTCTGCAAGGGCCCAGAGTGAACCGTCCTTTCACACATCTGGGTGCCCTGAAAGGG  
CCCTTCCCCTCCCCCACTCCTCTAAGACAAAGTAGATTCTTACAAGGCCCTTTCCTTTGGAACAAGACAGCCTTC  
ACTTTTCTGAGTTCTTGAAGCATTTCAAAGCCCTGCCTCTGTGTAGCCGCCCTGAGAGAGAATAGAGCTGCCACT  
GGGCACCTGCGCACAGGTGGGAGGAAAGGGCCTGGCCAGTCCTGGTCTGGCTGCACTCTTGAAGTGGGCGAATG  
TCTTATTTAATTACCGTGAGTGACATAGCCTCATGTTCTGTGGGGTTCATCAGGGAGGGTTAGGAAAACCAAAA  
CGGAGCCCCTGAAAGCCTCACGTATTTACAGAGCAGCCTGCCATCTCTCCCCGAGGCTGCCCCAGGCCGGAG  
CCCAGATACGGGGCTGTGACTCTGGGCAGGGACCCGGGGTCTCCTGGACCTTGACAGAGCAGCTAACTCCGAGA  
GCAGTGGGCAGGTGGCCGCCCTGAGGCTTCACGCCGGGAGAAGCCACCTTCCCACCCCTTCATACCGCCTCGTG  
CCAGCAGCCTCGCACAGGCCCTAGCTTTACGCTCATCACCTAAACTGTACTTTATTTTCTGATAGAAATGGTT  
TCCTCTGGATCGTTTTATGCGGTTCTTACAGCACATCACCTCTTTGCCCCGACGGCTGTGACGCAGCCGGAGGG  
AGGCACTAGTCACCGACAGCGGCTTGAAGACAGAGCAAAGCGCCACCCAGGTCCCCGACTGCCTGTCTCCAT  
GAGGTACTGGTCCCTTCCCTTTTGTTAACGTGATGTGCCACTATATTTTACACGTATCTCTTGGTATGCATCTTTT  
ATAGACGCTCTTTTCTAAGTGGCGTGTGCATAGCGTCCGTGCCCTGCCCCCTCGGGGGCCTGTGGTGGCTCCCCCT  
CTGCTTCTCGGGGTCCAGTGCATTTTGTCTCTGTATATGATTCTCTGTGGTTTTTTTTGAATCCAAATCTGTCT  
CTGTAGTATTTTTTAAATAAATCAGTGTTCATTAG

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FIGURE 2820

GGCACGAGGAGATGGCGATGGAGATGAGGCTTCCAGTGGCTCGCAAGCCTCTTAGCGAGAGACTGGGCCGCGACA  
CTAAGAAACATCTAGTGGTGCCGGGGGATACAATCACTACGGACACAGGATTTCATGCGGGGCCATGGAACGTATA  
TGGGAGAAGAGAAGCTCATTGCATCTGTTGCTGGCTCTGTGGAGAGAGTAAACAAGTTGATCTGTGTGAAAGCTT  
TGAAAACCCAGATACATTGGTGAAGTAGGAGACATCGTAGTGGGACGAATCACAGAGGTTCAACAGAAGAGGTGGA  
AGGTGGAGACCAACTCCAGGCTGGATTCCGTCTTGCTGCTCTCGTCCATGAACCTTCCTGGAGGAGAGCTGAGGA  
GAAGATCTGCAGAAGATGAGCTTGCAATGAGAGGTTTCTTACAGGAAGGGGACCTTATCAGTGCTGAGGTCCAGG  
CAGTGTTCTCTGACGGAGCTGTCTCTTTGCACACGAGGAGCCTGAAATATGGAAAACCTAGGTCCAGGGGGTTTTGG  
TCCAGGTTTTCCCCCTCCCTGGTGAAACGGCAGAAGACCCACTTTTCATGATTTGCCATGTGGTGCCTCAGTGATTC  
TCGGTAACAACGGCTTCATCTGGATTACCCAACACCTGAGCACAAAGAAGAGGAAGCAGGGGGCTTCATTGCAA  
ACCTGGAGCCTGTCTCTCTTGCTGATCGAGAGGTGATATCCCGGCTTCGGAACCTGCATCATCTCGCTGGTAACCTC  
AGAGGATGATGCTGTATGATACAGCATCTGTACTGCTATGAAGCATCCCTCCACATCAGATCAAAGACATCT  
TAAAGCCAGAAATAATGGAGGAGATTGTGATGGAAACACGCCAGAGGCTTTTGGAACAGGAGGGATTAAGGAGGTG  
CTCCAGAAGCACGGGACTGTGGACCTTGAGGAGTGAAGACTGTGATGTGTGGTCCCATATGTGGCTCAGCAAA  
GACTCGAGAGATCATCCCTTTGTCTGCATTGACGGCCCTGTGACGGCCTCCAGCCCACAGGCCTGCTTCTCCTG  
TCCTAACACCAAGCCTGGGTGGCAGATGAACAGTGCTTCCTTGGGTTGCCAGCTGAGTCCCGGTATTAGGGAATA  
GTTTCAGCTCTTTCAAAGTGACAGTGTTACAGTCGAATGGGCTCCCATCCTGGAATAATATGGAGAAATCCCTTG  
TCTTCCACTCACTGTCATTACAAGGCACAGTGCCCCATGAAATTGCCCAATAGAAAACATGGCATCCCTGACC  
TCCAAATGGTCTGTTTTGGCCTCCATTCTATATCCTTTAAATGACTGAGAATGCAGCTGGTAAAGTTGGAAGAA  
TAAAGTTAACCAAGCAGGCCAGGCACGGTGGCTCACGCCTATAATCCAGCACTTAGGGAGGCCAAGGCGGGCAG  
ATCACCTGAGGTCAATAGTTGAGACCAGCCTGGCCAACAAGGTGAAACCCCATCTCTACTAAAAATACAAAAAA  
TTAGCCAGGTGTGGTGGTGTGCACCTGTAGTCCCAGCTATTTGGGAGGCTGAGGTGGGAGAATCACTTGAACCTG  
GGAGGCGGAGGTTGCAGTGAGCTGAAATCGCGTACCACACTCCAGCCTGGGTGACAGAGCGAGACTGTGTTTCAA  
AGAAAAAAAAAAAAAAGCAGCCTTTTGCTTGGTTGGAATCTGATTTTCTGTTGCGTGTTCCTTGTAGCCATAGAT  
GTGATTATGTCCACACCGGGCTGCCTTAATCTGTCTGCTTGGAGAGTGAATTGTAAGATGCTGAATTATTCATG  
ATAATACAGTGAATGTTCTGGGTCCATGTACTCAGATAAACATGAAGAAAATAAGCAAAGAAAAATGGAGACTGG  
GAAAGCAAAGCTGTTTTATCCTATAATTGAAGTAGTGTGGAGCATTAACTTGTGGATGATTTCAGAGTTAAAGA  
TAAAAAGACGCCAGAGTTCTCGCTGAAGAATGTGAGAAAAA

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**FIGURE 2821**

MAMEMRLPVARKPLSERLGRDTKKHLVVPGDTITTTDTGFMRGHTYMGEEKLIASVAGSVERVNKLICVKALKTR  
YIGEVGDIVVGRITEVQQKRWKVETNSRLDSVLLSSMNLPGGELRRRSAEDELAMRGFLQEGDLISAEVQAVFS  
DGAVSLHTRSLKYGKLGQGVLVQVSPSLVKRQKTHFDLPCGASVILGNNGFIWIYPTPEHKEEEAGGFIANLEP  
VSLADREVISRLRNCIISLVTQRMMLYDTSILYCYEASLPHQIKDILKPEIMEEIVMETRQRLLQEG

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FIGURE 2822

GGCACGAGGCTTATAACCTGGGATGGGCACCCCTGCCAGTCCTGCTCTGCCGCCTGCCACCGCTGCCCGAGCCCG  
ACGCTATGTCCAGCAAAGGCTCCGTGGTTCTGGCCTACAGTGGCGGCCTGGACACCTCGTGCATCCTCGTGTGGC  
TGAAGGAACAAGGCTATGACGTCATTGCCTATCTGGCCAACATTGGCCAGAAGGAAGACTTCGAGGAAGCCAGGA  
AGAAGGCACTGAAGCTTGGGGCCAAAAAGGTGTTTCATTGAGGATGTCAGCAGGGAGTTTGTGGAGGAGTTTCATCT  
GGCCGGCCATCCAGTCCAGCGCACTGTATGAGGACCGCTACCTCCTGGGCACCTCTCTTGCCAGGCCCTGCATCG  
CCCGCAAACAAGTGGAAATCGCCAGCGGGAGGGGGCCAAAGTATGTGTCCACGGCGCCACAGGAAAGGGGAACG  
ATCAGGTCCGGTTTGAGCTCAGCTGCTACTCACTGGCCCCCAGATAAAGGTCATTGCTCCCTGGAGGATGCCTG  
AATTCTACAACCGGTTCAAGGGCCGCAATGACCTGATGGAGTACGCAAAGCAACACGGGATTCCCATCCCGGTCA  
CTCCAAGAACCCGTGGAGCATGGATGAGAACCTCATGCACATCAGCTACGAGGCTGGAATCCTGGAGAACCCCA  
AGAACCAAGCGCCTCCAGGTCTCTACACGAAGACCCAGGACCCAGCCAAAGCCCCCAACACCCCTGACATTCTCG  
AGATCGAGTTCAAAAAAGGGGTCCCTGTGAAGGTGACCAACGTCAAGGATGGCACCACCACCAGACCTCCTTGG  
AGCTCTTCATGTACCTGAACGAAGTCGCGGGCAAGCATGGCGTGGGCCGTATTGACATCGTGGAGAACCGCTTCA  
TTGGAATGAAGTCCCAGGTATCTACGAGACCCAGCAGGCACCATCCTTTACCACGCTCATTAGACATCGAGG  
CCTTCACCATGGACCGGAAGTGCACAAAATCAAACAAGGCCTGGGCTTGAAATTTGCTGAGCTGGTGTATACCG  
GTTTCTGGCACAGCCCTGAGTGTGAATTTGTCCGCCACTGCATCGCCAAGTCCCAGGAGCGAGTGGGAAGGGAAAG  
TGCAGGTGTCCGTCTCAAGGGCCAGGTGTACATCCTCGCCGGGAGTCCCACTGTCTCTCTACAATGAGGAGC  
TGGTGAGCATGAACGTGCAGGGTGATTATGAGCCAACCTGATGCCACCGGGTTCATCAACATCAATTCCCTCAGGC  
TGAAGGAATATCATCGTCTCCAGAGCAAGGTCACTGCCAAATAGACCCGTGTACAATGAGGAGCTGGGGCCTCCT  
CAATTTGCAGATCCCCCAAGTACAGGCGCTAATTGTTGTGATAATTTGTAATTGTGACTTGTCTCCCCGGCTGG  
CAGCGTAGTGGGGCTGCCAGGCCCCAGCTTTGTTCCCTGGTCCCCCTGAAGCCTGCAAACGTTGTTCATCGAAGGG  
AAGGGTGGGGGGCAGCTGCGGTGGGGAGCTATAAAAATGACAATTAAGAGACACTAGTCTTTTATTCTAAAA  
AAAAAAAAAAAAAAAAAAAA

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**FIGURE 2823**

MSSKGSVVLAYS SGLDTSCILVWLKEQGYDVIAYLANIGQKEDFEEARKKALKLGAKKVFIEDVSREFVEEFIWP  
AIQSSALYEDRYLLGTSLARPCIARKQVEIAQREGAKYVSHGATGKGNDQVRFELSCYSLAPQIKVIAPWRMPEF  
YNRFKGRNDLMEYAKQHGIPIPVTPKNPWMDENLMHISYEAGILENPKNQAPPGLYTKTQDPAKAPNTPDILEI  
EFKKGVPVKVINVDGTTHTSLELFMYLNEVAGKHGVGRIDIVENRFIGMKSRGIYETPAGTILYHAHLDIEAF  
TMDREVRKIKQGLGLKFAELVYTGFWHSPECFVRHCAKSQERVEGKVQVSVLKGQVYILGRESPLSLYNEELV  
SMNVQGDYEPTDATGFININSLRLKEYHRLQSKVTAK

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**FIGURE 2824**

AAAAATCGAGGCGGGGCTGAGAGGCTGCGGCGGCTGACTAGGTTTTTCGGACCGCGGCGGGCGGGGAAGAGAGAC  
TGCGGCGGGAGGGCCAGGCCGTGGGAGAGACGCGGGAAGTGCGGGTCGCAGAGGCACCTGACCACCCCGCCCTA  
GGCCGACCCGGCGGACGCGGCGTCTGGTGTGCGGGCGCTGGGGCGGGTCCCAGGTCTCCCCGCTGCGTGCTTGA  
GGCTCAGCCATGCCCCAGCAGAGAGCCCTGCCCCAGAGCAAGGAGACGCTGCTGCAGTCTACAACAAGCGGCTG  
AAGGACGACATTAAGTCCATCATGGACAACCTTACCAGAGATCATCAAGACCGCCAAGATTGAGGACGAGACGCAG  
GTGTCACGGGCCACTCAGGGTGAACAGGACAATTACGAGATGCATGTGCGAGCCGCCAACATCGTCCGAGCCGGC  
GAGTCCCTGATGAAGCTGGTGTCCGACCTCAAGCAGTTCTGATCCTCAATGACTTCCCTCCGTGAACGAGGCC  
ATTGACCAGCGCAACCAGCAGCTGCGCACACTGCAGGAGGAGTGCGACCGGAAGCTCATCACGCTGCGAGACGAG  
ATCTCCATTGACCTCTACGAGCTGGAGGAGGAGTATTACTCGTCCAGCTCAAGCCTTTGCGAAGCTAATGACCTG  
CCTCTGTGCGAAGCTTACGGGAGGCTGGACCTCGACACAGACTCTGCTGATGGCCTCTCGGCCCCCTCTGCTGGCG  
TCCCCGGAGCCCAGTGCTGGCCCCCTACAGGTGGCAGCCCCCTGCCCACTCCCATGCTGGTGGCCCTGGCCCCACT  
GAGCACGCCTGAGCCTCCGGGGCCACGCTTCGTTCTCAGGAACAAAACCTGAGGCAGCCCTTTGGATGCCCTCAC  
AGCCTTGCTTCTCTCAGCCTAGGTTCCCATTTGGGGACTTCAGGACCCAGAGCCACTAGGACTTCCTTGGGAAG  
CCCGTTAGCCCAGGGTGGGTCCCACCAGGACAGTAGGGAACAGTTGTTTCCCTAGCCATTTCCGAATAGCCCAT  
CATTCAGATCATCATCTCTGTTTGCTGCCTTCTGGCCAGCCAGGTGGAAGAAAGTTTCCAAGCTAGGTCTGGC  
CCGTTGGGGATCTCAGCAGTGGGGCAGGAGGGTGCTGATTTGCGGGAGTCCTGACCCGAGCCTGTTGTGACAGT  
TGGGAGGGGCTCTGAGCAGTGTGCGCAGGCCGGGTCTCCCATCCCGAGGCCAGCGTTCCTGTGACAGCCCCAT  
CCACTGGTTCTTGCCCTGAGCCACATATGTCGTGTGCATGGGCTGAGTGCCACGACAGGCCCGTGTGACAGCTGC  
TGCCACGCGATGTGGAAGCTAGGTGGGACTCATTCTAATTCTGCCGTTGTAATGAGACTTGATTAAACACCGC  
CACTTTTTTGC

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**FIGURE 2825**

GGAGAAGGGAGGGCGCCTGGCTGTATCCCCCGAGGCCCTCTTCGAGAGCCTTCCTCCTCGGGCAGTGCGTTCTG  
GGGCTGTGCTGCTCCTGTTACCTTCTGAAACCTTCGACCGTTTGAGCTGGAGGGGCCCTGAGAAATCAGAGTCTA  
CGTATCATTACTTAGGGGGAAACTTAGGCTGGAGACAGGGAGGCCTTCCACTCTGCCCCATTAGCTTAGAAAAT  
CAAGATTCACTCCAGCAGATGCAGAGTCCATGTCCATCTTGTGCCTTCTCCTGGACAAACCTTTCCTTCCTGGTG  
GTGGATTTAAATACTCCTTCTGCCCATTGGCCATGCTGGGAGCCACAGCTATCCAGAGCCAGCATGACCTGGG  
GCTTGGTTTCCCTGCCCTGGGCTCAGTGGCACTGCTGAGCTGCAGCAGTCCTAGAGTTTTCCAGGGGGTTCTGAG  
GGAATCTTTGGTCCCCAGTACTCATTAACTCAGCAGACATGAGGCAGCATTTCCTCCACACTAGGGTGGCTGAGA  
GGGGTCTGGGGTGTTTCAGACCCTTCTGGGCATCTCCTTCCACAGCTGTTAGTTGTCGGTCTCTTTGAGGCA  
GCCACCGTCCCTGAGGGCCCCCTGCACAGAGCAGCTGTGGGCCCTGTAATTCAGCCTGCCTGCCTTGCCTTGGGGCA  
GGGAGAGAGGGAACCTGCTCACGGCCCTGCAGCAGAGCAGGGCGCAAACCCAGGACATCTGTGCCAGGCTTCCCA  
TGCCCTCCCCAACAGTCCCTCAGCTTCACCCAGCGGGGCTTCCAGGCCAGCCTGTGTCCCTCCCGCAGGCCTC  
CTGTCCACACCAGCGCCCCCTGGGGGGCCTCACACAGCCCCTGGCTTTCCTCTCTGCCTGCTCCTGTCTCTCCCT  
GGGGTTTCTGGTGGTGGAAAAGCTCAAGCCTTTGCGAAGCTAATGACCTGCCTCTGTGCGAAGCTTACGGGAGGC  
TGGACCTCGACACAGACTCTGCTGATGGCCTCTCGGCCCTCTGCTGGCGTCCCCGGAGCCCACTGCTGGCCCCC  
TACAGGTGGCAGCCCCCTGCCCACTCCCATGCTGGTGGCCCTGGCCCCACTGAGCACGCCTGAGCCTCCGGGGCCA  
CGCTTCGTTCTCAGGAACAAAACCTGAGGCAGCCCTTGGATGCCCTCACAGCCTTGCTTCTCTCAGCC



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**FIGURE 2826**

TTTCCTTTCTCTCTCCTCCCGCCGCCCAAGATGCCGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCC  
CCAGCTGTCGTGAAGAAGCAGGAGGCTAAGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGC  
ATTGGACAGGACATCCAGCCCAAAGAGACCTCACCCGCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCGG  
CAGAGAGCCATCCTCTATAAGCGGCTGAAAGTGCCTCCTGCGATTAACCAGTTCACCCAGGCCCTGGACCGCCAA  
ACAGCTACTCAGCTGCTTAAGCTGGCCCAAGTACAGACCAGAGACAAAGCAAGAGAAGAAGCAGAGACTGTTG  
GCCCCGGCCGAGAAGAAGGCTGCTGGCAAAGGGGACGTCCCAACGAAGAGACCACCTGTCCTTCGAGCAGGAGTT  
AACACCGTCACCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTGATTGCACACGACGTGGATCCCATCGAG  
CTGGTTGTCTTCTTGCCCTGCCCTGTGTCGTAATAATGGGGGTCCCTTACTGCATTATCAAGGGAAAGGCAAGACTG  
GGACGTCTAGTCCACAGGAAGACCTGCACCACTGTCGCCTTCACACAGGTGAACTCGGAAGACAAAGGCGCTTG  
GCTAAGCTGGTGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGATCCGCCGTCCTGGGGTGGCAAT  
GTCCTGGGTCCTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGGCTAAAGAACTTGCCACTAAACTG  
GGTTAAATGTACTACTGTTGAGTTTTCTGTACATAAAATAATTGAAATAATACAAATTTTCCTTC

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**FIGURE 2827**

MPKGKKAKGKKVAPAPAVVKKQEAKKVVNPLFEKRPKNFGIGQDIQPKRDLTRFVKWPRYIRLQRQRAILYKRLK  
VPPAINQFTQALDRQTATQLLKLAHKYRPETKQEKQRLARAEEKKAAGKGDVPTKRPPVLRAGVNTVTTLVENK  
KAQLVVIAHDVDPIELVVFLPALCRKMGVPYCI IKGKARLGRLVHRKTCTTVAFTQVNSEDKGALAKLVEAIRTN  
YNDRYDEIRRHWGGNVLGPKSVARIAKLEKAKAKELATKLG

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**FIGURE 2828**

GGAGCCGCAGCCGACGCGGAGCGAGGCCGCGCCGCGGGCACTTCCTGTGGAGGCCGAGCGGGTGCGGGCGCCGA  
CGGGCGAGAGCCAGCGAGCGAGCGAGCGAGCCGAGCCGAGCCTCCCGCCGTCGCCATCGGGCCAGAACGACCTGAT  
GGGCACGGCCGAGGACTTCGCCGACCAGTTCCTCCGTGTACAAAGCAGTACCTGCCCCACGTGGCGCGCCTCTG  
TCTGATCAGCACCTTCCTGGAGGACGGCATCCGTATGTGTTCCAGTGGAGCGAGCAGCGGACTACATCGACAC  
CACCTGGAAGTTCGGCTACCTGCTGGCCTCGTCTTCGTCTTCCTCAACTTGCTGGGACAGCTGACTGGCTGCGT  
CCTGGTGTGAGCAGGAAGTTCGTGCAGTACGCTGCTTCGGGCTCTTTGGAATCATAGCTCTGCAGACGATTGC  
CTACAGCATTTTATGGGACTTGAAGTTTTGATGAGGAACCTGGCCCTGGGAGGAGGCCTGTTGCTGCTCCTAGC  
AGAATCCCGTTCTGAAGGGAAGAGCATGTTGCGGGCGTCCCCACCATGCGTGAGAGCTCCCCAAACAGTACAT  
GCAGCTCGGAGGCAGGGTCTTGCTGGTCTGATGTTTCATGACCCTCCTTCACCTTGACGCCAGCTTCTTTTCTAT  
TGCCAGAACATCGTGGGCACAGCTCTGATGATTTTAGTGGCCATTGGTTTTAAACCAAGCTGGCTGCTTTGAC  
TCTGTGTGTGGCTCTTTGCCATCAACGTATATTTCAACGCCCTTCTGGACCATTCCAGTCTACAAGCCCATGCA  
TGACTTCCTGAAATACGACTTCTTCAGACCATGTCGGTGATTGGGGGCTTGCTCCTGGTGGTGGCCCTGGGCCC  
TGGGGGTGTCTCCATGGATGAGAAGAAGAAGGAGTGGTAACAGTACAGATCCCTACCTGCCTGGCTAAGACCCG  
TGGCCGTCAAGGACTGGTTCGGGGTGGATTCAACAAAAGTCCAGCTTTTATGTATCCTCTTCCCTTCCCTCCC  
TTGGTAAAGGCACAGATGTTTTGAGAACTTTATTTGCAGAGACACCTGAGAATCGATGGCTCAGTCTGCTCTGGA  
GCCACAGTCTGGCGTCTGACCCTTCAGTGCAGGCCAGCCTGGCAGCTGGAAGCCTCCCCACGCCGAGGCTTTGG  
AGTGAACAGCCCGCTTGGCTGTGGCATCTCAGTCCATTTTTGAGTTTTTTGTGGGGGTACAGGAGGGGCCCTT  
CAAGCTGTACTGTGAGCAGACGCATTGTTATTATCATTCAAAGCAGTCTCCCTCTTATTTGTAAGTTTACATTTT  
TAGCGGAAACTACIAAATTATTTTGGGTGGTTCAGCCAAACCTCAAACAGTTAATCTCCCTGGTTTTAAATCAC  
ACAGTGGCTTTGATGTTGTTTTCTGCCCCGATTGTATTTTATAGGAATAGTGAACATTAGGGACACCCAAA  
GAATGATGCAGTATTAAAGGGGTGGTAGAAGCTGCTGTTTATGATAAAAGTCATCGGTGAGAAAATCAGCTTGA  
TTGGTGCCAAGTGTTTTATTGGGTAAACCCCTGGGAGTTTTAGTAGCTTGAGGCAAGGTGGAGGGGCAAGAAGTC  
CTTGGGGAAGCTGCTGGTCTGGGTGCTGCTGGCCTCCAAGCTGGCAGTGGGAAGGGCTAGTGAGACCACACAGGG  
GTAGCCCCAGCAGCAGCACCCCTGCAAGCCAGCCTGGCCAGCTGCTCAGACCAGCTTGCAAGCCGAGCCGCTGT  
GGCAGGGGGGTGTGGCAGGAGCTCCAGCACTGGAGACCCACGGACTCAACCCAGTTACCTCACATGGGGCCTTT  
TCTGAGCAAGGTCTCGAAAGCGCAGGCCGCCCTGGCTGAGCAGCACCGCCCTTTCCAGCTGCACTCGCCCTGTG  
GACAGCCCCGACACACCACTTTTCTGAGGCTGTGCTCACTCAGATTGTCCGTTTGCTATGCCGAATGCAGCCAA  
AATTCCTTTTTTACAATTTGTGATGCCCTTACCGATTGATCTTAATCCTGTATTTAAAGTTTTCTAACACTGCCTT  
ATACTGTGTTTTCTTTTTTGGGGGAGCTTAAGTGTGTTGCTCCCTGTCGTCTGCACCATAGTAAATGCCACAA  
GGGTAGTGAACACCTCTCTGGCCCCTAGACCTATCTGGGGACAGGCTGGCTCAGCCTGCTCCAGGGCTGCTGC  
GGCCAGCCCCGAGCCTGCCTCCCTCTTGGCCTCTCATCCATTGGCTCTGCAGGGCAGGGGTGAGGCAGGTTCT  
GCTCATAAGTGCTTTTGAAGTCACCTACCTTTTTAACACAGCCGAACCTAGTCCCAACGCGTTTGCAATATTCC  
CCTGGTAGCCTACTTCTTACCCCGAATATTGGTAAGATCGAGCAATGGCTTCAGGACATGGGTTCTCTTCTCC  
TGTGATCATTCAAGTGCTCACTGCATGAAGACTGGCTTGTCTCAGTGTTCACCTCACCAGGGCTGTCTCTTGG  
TCCACACCTCGCTCCCTGTTAGTGCCGTATGACAGCCCCATCAAATGACCTTGCCCAAGTCACGGTTTTCTGT  
GGTCAAGGTTGGTTGGCTGATTGGTGGAAAGTAGGGTGGACCAAGGAGGCCACGTGAGCAGTCAGCACCAGTTC  
TGCACCAGCAGCGCTCCGTCTAGTGGGTGTTCTGTTTCTCCTGGCCCTGGGTGGGCTAGGGCCTGATTCCGG  
AAGATGCCTTTGCAGGGAGGGGAGGATAAGTGGGATCTACCAATTGATTCTGGCAAAACAATTTCTAAGATTTTT  
TTGCTTTATGTGGGAAACAGATCTAAATCTCATTTTATGCTGTATTTTATATCTTAGTTGTGTTTGAACCGTTT  
TGATTTTTGGAACACATCAAATAAATAATGGCGTTTGTGTAAAAA

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**FIGURE 2829**

MGQNDLMGTAEDFADQFLRVTKQYLPHVARLCLISTFLEDGIRMWFQWSEQRDYIDTTWNCGYLLASSFVFLNLL  
GQLTGCVLVLSRNFVQYACFGLFGIIALQTIAYSILWDLKFLMRNLALGGLLLLLLAESRSEGKSMFAGVPTMRE  
SSPKQYMLGGRVLLVLMFMTLLHFDASFFSIVQNIVGTALMILVAIGFKTKLAALTLVVWLFAINVYFNAFWTI  
PVYKPMHDFLKYDFFQTMSVIGLLLLVVALGPGGVSMDEKKKEW

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**FIGURE 2830**

ACCCAGCCATGCCCGCCCTCAGTCGCTGGGCCAGCCTGCCCGGCCCCAGCATGCGGGAGGCAGCCTTCATGTAC  
AGCACAGCAGTGGCCATCTTCCTGGTCATCCTGGTGGCCGCACTGCAGGGCTCGGCTCCCCGTGAGAGCCCCCTC  
CCCTATCACATCCCCCTGGACCCGGAGGGGTCCCTGGAGCTCTCATGGAATGTCAGCTACACCCAGGAGGCCATC  
CATTTCCAGCTCCTGGTGGGAGGCTCAAGGCTGGCGTCTGTTTGGGATGTCCGACCGTGGCGAGCTTGAGAAC  
GCAGATCTCGTGGTGCTCTGGACCGATGGGGACACTGCCTATTTTGGGACGCCTGGAGTGACCAGAAGGGGCAG  
ATCCACCTGGATCCCCAGCAGGACTACCAGCTGCTGCAGGTGCAGAGGACCCAGAAAGGCCTGACCTGCTTTTC  
AAGAGGCCCTTTGGCACCTGCGACCCCAAGGATTACCTCATTGAGGACGGCACTGTCCACTTGGTCTACGGGATC  
CTGGAGGAGCCGTTCCGGTCACTGGAGGCCATCAACGGCTCGGGCCTGCAGATGGGGCTGCAGAGGGTGCAGCTC  
CTGAAGCCCAATATCCCCGAACCGGAGTTGCCCTCAGACGCGTGCACCATGGAGGTCCAAGCTCCCAATATCCAG  
ATCCCCAGCCAGGAGACCAGTACTGGTGCTACATTAAGGAGCTTCCAAAGGGCTTCTCTCGGCACCACATTATC  
AAGTACGAGCCCATCGTCACCAAGGGCAATGAGGCCCTTGTCACCACATGGAAGTCTTCCAGTGCGCCCCGAG  
ATGGACAGCGTCCCCCACTTACGCGGGCCCTGCGACTCCAAGATGAAACCCGACCGCCTCACTACTGCCGCCAC  
GTGCTGGCCGCTGGGGCCCTGGGTGCCAAGGCATTTTACTACCCAGAGGAAGCCGGCCTTGCTTCCGGGGGTCCA  
GGGTCTCCAGATATCTCCGCTGGAAGTTCACTACCACAACCCACTGGTGATAGAAGGACGAAACGACTCCTCA  
GGCATCCGCTTGTACTACACAGCCAAGCTGCGGCGCTTCAACGCGGGGATCATGGAGCTGGGACTGGTGTACACG  
CCAGTGATGGCCATTCCACCAGGGAGACCGCCTTCATCCTCACTGGCTACTGCACGGACAAGTGCACCCAGCTG  
GCACTGCCTCCCTCCGGGATCCACATCTTCGCTCTCAGCTCCACACACACCTGACTGGGAGAAAGTGGTCA  
GTGCTGGTCCGGGACGGCCGGGAGTGGGAGATCGTGAACCAGGACAATCACTACAGCCCTCACTTCCAGGAGATC  
CGCATGTTGAAGAAGGTGCTGTCGGTCCATCCGGGAGATGTGCTCATCACCTCTGCACGTACAACAGGAAGAC  
CGGGAGCTGGCCACAGTGGGGGGCTTCGGGATCCTGGAGGAGATGTGTGTAACTACGTGCACTACTACCCCCAG  
ACGCAGCTGGAGCTCTGCAAGAGCGCTGTGGACGCCGGCTTCCTGCAGAAGTACTTCCACCTCATCAACAGGTTT  
AACAACGAGGATGTCTGCACCTGCCCTCAGGCGTCCGTGTCTCAGCAGTTACCTCTGTTCCCTGGAACCTCTTC  
AACCAGGACGTACTGAAGGCCCTGTACAGCTTCGCGCCCATCTCCATGCACTGCAACAAGTCTCAGCCGTCCGC  
TTCCAGGGTGAATGGAACCTGCAGCCCCCTGCCAAGGTCATCTCCACACTGGAAGAGCCCAACCCACAGTGCCCC  
ACCAGCCAGGGCCGAAGCCCTGCTGGCCCCACCGTTGTGAGCATTGGTGGGGGCAAAGGCTGAGGGGGGACCTAC  
TCCTCCCCCTCCTCCATGCTGTCCCTGTGGGCTCACACCGGCACTGTGCACTTACTCTGCGACGATCCCCATGG  
AACAGCCCTGCACGCCCAGGATGAAGGGGCCAGACCACGCCCTGCCTGAGACCACGGTCCAATCCAGCCTTCTT  
CCCCCAGGGTCCCCCTGCATGGCTGAGAGGGTGTGGGTGCCCTGTTGACCTACCTGGACCGAGTGGACCACGACC  
TCGTCCATTTAAACCCGGCTGACTCAGTGCAGGGACAGCCTGCACAGTGGTCCAGGGTCCAGCCCTCCGCCAGCC  
CTGTTCCGCTCACTGGGTGTGGCCTGGCTTCTGGGACAGGCACCATGCTGGGCCGGGGTGTGGAATCACCGGGA  
ACGCCCCCGCCCCCGCCCCGCTGCTCCCGGTGTGCAGCGGGTGCGGGTGCCGCTTAAACATTTCCCTGCTGAGTG  
GCTCGTGTTCACAGTGGGCGGCTTCCCTGCGACGGAGGCAGGACCAGGCATTAGCTAGTTAGAGACTCGCCTG  
GGAAATTGCTCCATTCCCTGAGTAAACAGATATTTTCGCCACCTAAAGGGAAGCCCTGACAACAATATCACCAA  
AAGACGAGGCGGCAAGATCCAGCGGGGCTTCTGGGCGCCGGTTCCACGTGGGGTGGAAATTATTAGCACCAGCTT  
GCTTCTCTGCCGGTGGGGCCAGCGCTGAACAGACCGGGGTGGAGTCAGGGCTGTGCTTTCCGCGTGGTTCTGCCA  
CTTAGGGAGTGTGCTTGGGCGGGCCATTTACATTCTGACCCCTCACTTTTCTCATCTGTAAACCAGGCTGAT  
GCCGTGCGGGCTAATGAGCCAATAAAGCTCACACTTGGGCTGGCACCCACTGGAGGTGGG

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**FIGURE 2831**

MREAAFMYSTAVAIIFLVILVAALQGSAPRESPLPYHIPLDPEGSLELSWNVSYTQEAIHFQLLVRRRLKAGVLFGM  
SDRGELENADLVVLWTDGDTAYFADAWSDQKGQIHLDPQQDYQLLQVQRTPEGLTLLFKRPFGTCDPKDYLIEDG  
TVHLVYGILEEPFRSLEAINGSLQMGLQRVQLLKPNIPPELP SDACTMEVQAPNIQIPSQETTYWCYIKELPK  
GFSRHHIIKYEP IVTKGNEALVHHMEVFQCAPEMDSVPHFSGPCDSKMKPDRNLNYCRHVLAAWALGAKAFYYPEE  
AGLAFGGPGSSRYLRLEVHYHNPLVIEGRNDSSGIRLYYTAKLRRFNAGIMELGLVYTPVMAIPPRETAFILTGY  
CTDKCTQLALPPSGIHIFASQLHHTLTGRKVVTVLVRDGREWEIVNQDNHYSPhfQEIRMLKKVSVHHPGDVLIT  
SCTYNTEDRELATVGGFGILEEMCVNYVHYYPQTQLELCKSAVDAGFLQYFHLINRFNNEVDVCTCPQASVSQQF  
TSVPWNSFN RDVLKALYSFAPISMHCNKSSAVRFQGEWNLOPLPKVISTLEETPQCPTSQGRSPAGPTVVSIGG  
GKG

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**FIGURE 2832A**

GATTTCTCCACCCAGGTGAACTCCTCCCTCACCTCCCCGACGGGGCGAGGCTCCATGGCTGCCCCCTCGCTGCAC  
CCGTCCCTGGGGCCTGGCATCGGCTCCCCGGGACAGCTGCATTCTCCCATCAGCACCCCTGAGCTCCCCCATCAAC  
GGCATGGGCCCCGCCTTTCTCGGTTCATCAGCTCCCCCATGGGCCCCACTCCATGTCGGTGGCCACCACACCCACC  
CTGGGCTTCAGCACTGGCAGCCCCCAGCTCAGCTCACCTATGAACCCCGTCAGCAGCAGCGAGGACATCAAGCCC  
CCCCGGGCTCAATGGCGTCCTCAAGGTCCCCGCCACCCCTCAGGAAACATGGCTTCCTTCACCAAGCACATC  
TGCGCCATCTGCGGGGACCGCTCCTCAGGCAAGCACTATGGAGTGACAGCTGCGAGGGGTGCAAGGGCTTCTTC  
AAGCGGACGGTGCAGCAAGGACCTGACCTACACCTGCCGCGACAACAAGGACTGCCTGATTGACAAGCGGCAGCGG  
AACCAGTGCCAGTACTGCCGCTACCAGAAGTGCTGGCCATGGGCATGAAGCGGGAAGCCGTGCAGGAGGAGCGG  
CAGCGTGGCAAGGACCGGAACGAGAATGAGGTGGAGTCGACCAGCAGCGCCAACGAGGACATGCCGTGGAGAGG  
ATCTGGAGGCTGAGCTGGCCGTGGAGCCCAAGACCGAGACCTACGTGGAGGCAAACATGGGGCTGAACCCAGC  
TCGCCGAACGACCCTGTACCAACATTTGCCAAGCAGCCGACAAACAGCTTTTACCCTGGTGGAGTGGGCCAAG  
CGGATCCACACTTCTCAGAGCTGCCCCGTGGACGACCAGGTATCCTGCTGCGGGCAGGCTGGAATGAGCTGCTC  
ATCGCTCCTTCTCCACCGCTCCATCGCCGTGAAGGACGGGATCCTCCTGGCCACCGGGCTGCACGTCCACCGG  
AACAGCGCCACAGCGCAGGGGTGGGCGCCATCTTTGACAGGGTGCTGACGGAGCTTGTGTCCAAGATGCGGGAC  
ATGCAGATGGACAAGACGGAGCTGGGCTGCCTGCGCGCCATCGTCTCTTTAACCTGACTCCAAGGGGCTCTCG  
AACC CGCCGAGGTGGAGGCGCTGAGGGAGAAGGTCTATGCGTCTTGGAGGCCACTGCAAGCACAGTACCCA  
GAGCAGCCGGAAGGTTGCTAAGCTCTTGCTCCGCTGCCGCTCTGCGCTCCATCGGGCTCAAATGCCTGGAA  
CATCTCTTCTTCAAGTCATCGGGACACACCCATTGACACCTTCCTTATGGAGATGCTGGAGGCGCCGCAC  
CAAATGACTTAGGCCTGCGGGCCCATCCTTTGTGCCACCCGTCTGGCCACCCCTGCCTGGACGCCAGCTGTTCT  
TCTCAGCCTGAGCCCTGTCCCTGCCCTTCTGCTGCTGGCTGTTTGGACTTTGGGGCACAGCCTGTCACTGCTCT  
GCCTAAGAGATGTGTTGTACCCCTCCTTATTTCTGTTACTACTGTCTGTGGCCAGGGCAGTGGCTTTCCTGAG  
GCAGCAGCCTTCGTGGCAAGAACTAGCGTGAGCCAGCCAGGCGCCTCCCCACCGGGCTCTCAGGACACCCCTGCC  
ACACCCACGGGGCTTGGGCGACTACAGGGTCTTCGGGGCCCCAGCCCTGGAGCTGCAGGAGTTGGGAACGGGGCT  
TTTGTTCCTGTTGCTGTTTATCGATGCTGGTTTTTCAGAATTCCTGTGTGGCCCTCCTGTCTGGAGTGACATCTTC  
ATCTGCTCTGAATACTGGTGCCAGCCAGCCGCTGACAGCTTCCCCCTAATCAGGAGGGGACAGCTGGGGGCGCA  
AGCTGGTGTGTATCAGCAAAGACCTCAGCCGCTCGGGGATGAGAGGGGACTCGTGGGGCAAGCAAGCTGCCCT  
GTGCTCTGAGTGAGGGGGAAGGTAGCCCTTTTCCAAAGATAACTCACAGTTTTGCCCTCGAGCCAATGAGAAC  
ATGAGCTGCCCTCTGTGCAAGGTTTCGGGGCCACCTCCAGGCTGCAGGGGCGGGTCACTCACCCCTGTTTTCT  
CTCTGCCCTTGGTGTCTGTTTCAGACTCCCGACTCCCCGTTTCCAGACAGAGTGCCCCGGCCCCCTCCCCAGCCTG  
AGTCTTCTCCTTGTCTGCGGGGTGGGCTGAGGCTTGTCTTGTTCCTGCAGGGCTGGCCCTGGCTCGGGCAGG  
GTGGGGCATACACCTCACTGGCCTTGTCTGGAGGCACAGGGCTCTGCGGACCTGCAGCCATCTGTGAGGCCCGC  
GGGGATGGGAGGGGAGGAGGTGGCCTGTTGGTTTCCCTCAGAGGGGCGAGGTGGCCTGGAGAGAGAGGGGGCTCA  
GGAAGTGGGAGCCTCGTGGGTGGGGCAGATGCTCCGCGGCTGGAGTGGCTCTGCCGGGGCATTGGTGGGACCCC  
TGCTCAGGCTTCTCTCTGGCTGCCAGTTGTGTCTAAAAGACTCTTGAATCTGAGAACCCGGAGTCGCAGCGCC  
CTCGGGCCTGGGCCACACGCAGGCCCTGGTGGGACCACCCAGCCTGGTATTGTCCACGGACAGCGTTGTTACCC  
AGAGCCTTACTTGGGAGCCTCACTGAACGCCTGCTCTGGTTGAAGGTGGGGTGGGGGCGGGGCTTGGGGCTCCC  
TGGCTCAGCCAGTGCGGCCCTGGCGCTCCTCCCGCAGGCTCTGCCCCGGGCTCCGGTGGTGGGGGCCCTCTCA  
GGTTGAACTCGCTCTTTTGCAGTGAAGGCCCTCCCTTTGGCCTGAGTACTTTTCCCGTTACGCTCAGTCCC  
GTGGACCCAGCCTTTGTGAGTGGCAGGTGCCTGAACAGAGGGTGGATGGGGGGGATACCGGAGGGGGTCTGTCT  
TCCAGCCGAGTCTAGGAATGATGCGGGGGGTGGACGCCTTCTCCATAGTCTTTCCCCACCTGGAGCAGGGG  
TTCTCAGTGGTGAGGGGAGCTGCCTACAGGTTGGACGGGAGGAGTGGCTTGGAGAGGAGCTTTCCAGCCTT  
GGTGGGGAAGAAAGTGTCATTCTTTGCCCTTCTGGAGCTCCAGCCAGAGCTGAGCTTAGGCACCCGAGTGGAG  
CCTGCAGCTGAGTCTGTGCCCGAGACAGGCTGTGAGAGATTCCAGAAGCCTCTCTCCCCGCGGCCCTCCACCCC  
TGCCCTTTCAGCGTTGTGGATCCCTAGAGGTGGCCCCCTGCCGATCCACCGTCTGAGGCAGAGTGTGAGCCTC  
ATACCTGTACCAGGTCCCCGGCCAGCTGGGCCCTCCAGGCACTGCCAGGAAGCCCCAGCTGCCCTTGGCGGGT  
GTGGTGGAAATGGCAGGAGGGTGAGGTACTCTTGGGGCCCCAGCGGTGGGAGTGCAAAAGACCCACGCCAACA  
CCTGGTGCCTTCTGCAGCCAGCGCCACCCATCCGTGCCCGGACCCCTGGGAATGCCCCGGGCTCCAGAGGAAAA  
AGCCCAGGGACGGGGCTCCGTTGCGGGGGGTGGCTGCTTCTTGGGAACCTTGTGCTTCCGGCGCTGGCTGGC

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**FIGURE 2832B**

TGGCTGGCTGGCTGTAAAGCACTGAAGCCCCCGGCCGCCAACCCCTGAAAGCAGAACCTGGCCTCCCTGGCCAC  
AGCAGCCTTACCCACCGCTCTACGTGTCCCGGGCACTTCCCGCAGCCTTCCCGTCCCTTTCTCATCGGCCTTGTA  
GTTGTACAGTGCTGTTGGTTTGAAAAGGTGATGTGTGGGGAGTGCGGCTCATCACTGAGTAGAGAGGTAGAATTT  
CTATTTAACCAGACCTGTAGTAGTATTACCAATCCAGTTCAATTAAGGTGATTTTTTGTAATTATTATTTTTG  
GTGGGACAATCTTTAATTTTCTAAAGATAGCACTAACATCAGCTCATTAGCCACCTGTGCCTGTCCCGCCTTGG  
CCCGGCTGGATGAAGCGGCTTCCCGCAGGGCCCCCACTTCCAGTGCGTTCCTGGGGACCCAGGGCACCCC  
GGCACCTTCAGGCACGCTCCTCAGCTGGTCACCTCCCGGCTTTGCCGTTTCAGATGGGGCTCCTGAGGCTCAGGAG  
TGAAGATGCCACAGAGCCGGGCTCCCTAGGCTGCGTCGGGCATGCTTGGAAGCTGGCCTGCCAGGACCTTCCAC  
CCTGGGGCTGTGTAGCCGCCGGCCCTCCGCACCCTGGAAGCACACGGCCTCTGGGAAGGACAGCCCTGACCTT  
CGGTTTTCCGAGCACGGTGTTCCTCAAGAATTCTGGGCTGGCGGCCTGGTGGCAGTGCTGGAGATGACCCCGAGC  
CCCTCCCGTGGGGCACCCAGGAGGGCCCTGCCGGAATGTGCAGCCTGTGGGTAGTCGGCTGGTGTCCCTGTCTGT  
GGAGCTGGGGTGCCTGATCTGGTGTCTGTCACGCAGGTGTGTGGTGTAAACATGTATGTCTGTACAGAGAGAC  
GCGTGTGGAGAGAGCCGCACACCAGCGCCACCCAGGAAAGGCGGAGCGGTTACCAGTGTTTTGTGTTTATTTTTA  
ATCAAGACGTTTTCCCTGTTTTCTATAAATTTGCTTCGTGTAAAGCAAGTACATAAGGACCTCCTTTGGTGAAA  
TCCGGGTTTGAATGAATATCTCAAGGCAGGAGATGCATCTATTTTAAGATGCTTTGGAGCAGACAGCTTAGCCG  
TTCCCAATCCTTAGCAATGCCTTAGCTGGGACGCATAGCTAATACTTTAGAGAGGATGACAGATCCATAAAGAGA  
GTAAAGATAAGAGAAAATGTCTAAAGCATCTGGAAAGGTAAAAAATAATCTATTTTGTACAAATGTAATTT  
TATCCCTCATGTATACTTGGATATGGCGGGGGGAGGGCTGGGACTGTTTCGTTTCTGCTTCTAGAGATTGAGGTG  
AAAGCTTCGTCCGAGAAACGCCAGGACAGACGATGGCAGAGGAGAGGGCTCCTGTGACGGCGGCGAGGCTTGGGA  
GGAAACCGCCGAATGGGGGTGTCTTCCCTCGGGGCAGGAGGGTGGGCCTGAGGCTTCAAGGGTTTTCTTCCCT  
TTCGAGTAATTTTTAAAGCCTTGCTCTGTTGTGTCTGTTGCCGGCTCTGGCCTTCTGTGACTGACTGTGAAGT  
GGCTTCTCCGTACGATTGTCTCTGAAACATCGTGGCCTCAGGTGCCAGGTTTGATGGACAGTAGCATTAGAATT  
GTGAAAAGGAACACGCAAAGGGAGAAGTGTGAGAGGAGAAACAAAATATGAGCGTTTAAATACATCGCCATTC  
AG



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## FIGURE 2833

CTGATGGAATAACAAAGACAACAGGCTTTTGCGCCACGCGCGGATCTTCCAAAGGCCCGGATGTCGCTTACAGAG  
TCACCAAAGACGCGCAGCTCAGCGCACCCACCATGCCCTCCAGCCCCCAGCTCGCCCGACCCATCCTGTTCTGTGA  
ATAGGTCTCAGGGGTGGGGGAGGGACTGCCAGATTTGGACACTATATTTTTTTCTAAATTCAACTTGAAGATGT  
GTATTTCCCTGACCTTCAAAAAATGTCCAAGGTAAGCCTCGTAAAGGTCATCCACCATCACCAAAGCCTCCG  
TTTTAACAACCTCCAACACGATCCATTTAGAGGCCAAATGTCATTCTGCAGGTGCCTTCCCGATGGATTAAAGG  
TGCTTATGTTTTTGTGAGTTTTAAGTAAATATTTGTATTGTATTGTTATAAATGTTAAGTGTGCCTGGCTTTCAA  
TCATGCACGGAACCCAGTCTCAGTCCCACGGACAGAATGGGCGAGGCATGGATTCTGGGTGTCAGTACCGTTCT  
GATTAGAAATAGGAAGTCTCCCCACCCCGCCCTGGCCAAGAACGTGCAATAAATTGGAAGTTTGCCCCGGGGCA  
GCAAGAATTTATGCTGCCATTGAAAAGCAGGTACCAGTGCCCTTTTCAGACAGTTTTTGTTCGCTCTAGACTT  
TTTTTTTTTTAATAGGGAATAATTTGATAATTTCTTTTTCTACATGCACTTAAGACTAAAACACAGGTTTG  
GATTAATTTTATTTGCTTCCTTTTCCGCTTTTCTCCCGCAGAGCCTGATGGGAGAATGCCAGGGCAGGGAAA  
CCACATTTTTTGTAGGTGATACTCAATGAAAATTTGGTGCTTATTTTTTACACTTCTCTCTGTGGCTCTCTGT  
GGTGCTATCTATCTGTTTAAAGGTCTCCTTGAAGGCGCACTGGGGACCCTGGCCATGCCCTGTTCTCCCTGCTTT  
CTTTATCCTGTTATTGCCTCCACAGTCTGTTGCCAAGGACTCTAAGATCAATGCACGTCACTTTCTTTCCACTG  
GGCAGGATAGCCAAGCACACTCCCTCCTGCGCTCTCCCGCCCCGGTGCGTCCACTCCCGAGGGCTGTTATGAGGA  
CTGGGTTGTGCCTACTTGATTTGAAAACACACACAAGCAATAAAAAGCCTCTTCTGCTGCTGTGGTGTGAC  
CATAGCAGATTATATTGGTTCCGTAATGTTTGTGGTGCTAATTTCTGTGTTGTTCCAAGCCGTTCACTCATGC  
CATGCGCTGCCTCGGTAGATGGAGTAATGTACAATGAATCCATGAGTCTCTCCAGGGCTGCCTGCAGCACGTCT  
TTTCCAAGTAGCCTATTTGGATTCCCATCTCAAATGTCTGGATGCGAGCGTCAGCGGCTCCAGAGCTCGGGGCG  
GGTGAGGTCCCTTTGGGGAACCTTTCTGCGCATCGAGGTGCGGGGGCTGCCGTCTGTGGGCAGGAGGACCCG  
AGGGGCAGCCAGGAAGGCGATCTTCACTGTGAAAAGTTGCCCGGGTGACGCGCTTTTCTTCTACCATGGG  
AAATGCAGGCTGGGCCCTTGGGGTGAGCCTGCGGGGCTCTGGTGCTGTCCCGACCCCCACCACCAGAATGC  
AGTTCCAGCTTAGGAAGCCACAAACAAGCCACCCAGGAGGAACAAACACCGCCAGCGTGATTTTCCAAATTC  
CCTGGAAGTAAGTCTCGCTCTTGCCAAAGAAAAGTCTGGCTTGGAGAGTCTCTGGAGCCAGGATGCCAGCATG  
TGCAATGACTGTCACCTTCATCTCTTCAAAAGAAAAGCCATAGCCGAGGACTGTCCCGGACCCCCGTGGACTG  
CGCTAGGTCAATGTGATTCTGTTTTCAATTTCTCATCCCATCCAATTTGTCTTTTCTCCTGTCAATTTCTTCTC  
TGTGGTCCCTTCAAAGTTGTTATAATTTGTACTGAACTTCAAAATGTGTCCGTTCTCCCCAGACCACTTAGCC  
ACAGTATATTGCAATAAAATTACTTCTTATATTGTCAGAAATCTTTTGGTGTAATTTATTTTTTCTCTCAAT  
ATATATAATTGGACAAACGCTGGCAAAAAGAAAAAATGGTAAGCAAAAACCCAAGATAAAGTTTCGAGGACAT  
CAGGCCTTTTGAATACAATGTCAAATGACACATTGTACGGTTTCAAAAAATCCGCTAGACATGTCATAAGTTT  
AACTGTAATGCCAGGAAAGGATATCTTAAATATTCTAAACTTGTGTAACAAAGGAATAATTAAGTAAATAGT  
TTTTCAATAAATCGAGTTGGGTGTTCCACCGT

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**FIGURE 2834**

CAGGGAGTTGAGAACTGTGGCACAAGGCGAGAGCTGGTTTCCTCTGCCCTGTTAGAGCTGGGGGACTCTTCAGA  
GTCAAAGGCCAGAGAGCAATGGAGCTGAGTGGAGCCACCATGGCCCCGGGGGCTCGCTGTCTGCTAGTCTTGTTCC  
TGCATATCAAGAACCTGCCCTGCCAGGCTGCGGACACATGTCCAGAGGTGAAGGTGGTGGGCCTGGAGGGCTCTG  
ACAAGCTCACCATTCTCCGAGGCTGCCCGGGGCTGCCCGGGGCCCCAGGGCCAAAGGGAGAGGCAGGTGTCATTG  
GAGAGAGAGGAGAACGCGGTCTCCCTGGAGCCCCTGGAAGGCAGGACCAGTGGGGCCCCAAAGGAGACCGAGGAG  
AGAAGGGGATGCGTGGAGAGAAAGGAGACGCTGGGCAGTCTCAGTCGTGTGCGACAGGCCACGCAACTGCAAGG  
ACCTGCTAGACCGGGGGTATTTCTGAGCGGCTGGCACACCATCTACCTGCCCGACTGCCGGCCCCCTGACTGTGC  
TCTGTGACATGGACACGGACGGAGGGGGCTGGACCGTTTTCCAGCGGAGGATGGATGGCTCTGTGGACTTCTATC  
GGGACTGGGCCGATACAAGCAGGGCTTCGGCAGTCAGCTGGGGGAGTTCTGGCTGGGGAACGACAACATCCACG  
CCCTGACTGCCCAGGGAAGCAGCGAGCTCCGTGTAGACCTGGTGGACTTTGAGGGCAACCACCAGTTTGCTAAGT  
ACAAATCATTCAAGGTGGCTGACGAGGCAGAGAAGTACAAGCTGGTACTGGGAGCCTTTGTCGGGGGCAGTGGG  
GTAATTCTCTAACGGGCCACAACAACAACTTCTTCTCCACCAAAGACCAAGACAATGATGTGAGTTCTTCGAATT  
GTGCTGAGAAGTTCCAGGGAGCCTGGTGGTACGCCGACTGTGCTTCAAACCTCAATGGTCTCTACCTCATGG  
GACCCCATGAGAGCTATGCCAATGGTATCAACTGGAGTGGCGGAAGGGGTACAAATATAGCTACAAGGTGTCAG  
AGATGAAGGTGCGGCCCGCCTAGACGGGCCAGGACCCCTCCACATGCACCTGCTAGTGGGGAGGCCACACCCACA  
AGCGCTGCGTGGTGAAGTCACCCCATTTCCCCAGCCAGACACACTCCCATGACGCCACAGCTGCCCTTTGCC  
CCCAGCTCAGTCAAGCCGCCACATGCCCACAACTCACCAGAGGGAGAATTATGTTTCTAAATATGTTTACTTTG  
GGACAGAAAAAAAAAAAA

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**FIGURE 2835**

MELSGATMARGLAVLLVLFLHIKNLPAQAADTCPEVKVVGLEGSDKLTILRGCPGLPGAPGPKGEAGVIGERGER  
GLPGAPGKAGFVGPKGDRGEKGMERGEKGDAGQSQSCATGPRNCKDLLDRGYFLSGWHTIYLPDCRPLTVLCDMDT  
DGGGWTVFQRRMDGSVDFYRDWAAYKQGFGSQLGEFWLGNDNIHALTAQGSSELRVDLVDFEGNHQFAKYKSFKV  
ADEAEKYKLVLGAFVGGSSAGNSLTGHNNNFFSTKDQDNDVSSNCAEKFQGAWWYADCHASNLNGLYLMGPHESEY  
ANGINWSAAKGKYKSYKVSEMKVRPA

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**FIGURE 2836**

GCGCGGGGAGCCA<sup>T</sup>TAGGAGGCGAGGAGAGAGGAGGCGCAGCTCCCGCCAGCCAGCCCTGCCAGCCCTGC  
CCGGAGGCAGACGCGCCGGAACCGGGACGCGATAAATATGCAGAGCGGAGGCTTCGCGCAGCAGAGCCCGCGCGC  
CGCCCGCTCCGGGTGCTGAATCCAGGCGTGGGGACACGAGCCAGGCGCGCCGCCGGAGCCAGCGGAGCCGGGGC  
CAGAGCCGGAGCGCGTCCGCGTCCACGCAGCCGCGCGGCCAGCACCCAGGGCCCTGC<sup>ATGCC</sup>AGGTCTGTGG  
AGGTGGCAGCGAGACATGCACCCGGCCCGGAAGCTCCTCAGCCTCCTCTTCCTCATCTGTATGGGCACTGAACTC  
ACTCAAAATAAAAGAGAAAACAAAGCAGAGAAGATGGGAGGGCCAGAGAGCGAGAGGAAGACCACAGGAGAGAAG  
ACACTGAACGAGCTTCCCTTGTTTTGCCTGGAAGCCACGCTGGCTCCCTGGCTCTGCCAGGATGTGCAGTCCA  
AATCCCAATCCAGCAGTGGGGTTATGTCGTCCCGCTTACCCTCAGAGCCCTTCTCCTGGTGCTGCCAGACGATC  
AGCCAGTCCCTCCTGGAGAGGTTCTGCATGGCCTCTAGGAGAGAAGTTTTCTTGGCCCCAGGAAGGCCTGGTGGA  
GGGTGGTGGTTGTGCACTGTTGCTGGACAGATGCATTATTTCATGTGCACACACACACACATGCACACACA  
GGGAGCAGATACCTGCAGAGAAGAGCCAACCCAGGTCTGAT<sup>TAGT</sup>GGCAAGCTGCCCCACAAAGGGCTATGCCT  
GTGTCTTATTGAGACACCTTGGCAAAGAGATGGCTGATTCTGGGTGGTCTGGACATGGCCGCACCCAAGGGCCC  
TCCAAGCCTTAATGGCACCTGAAGCCTCCATGCCAGGCCAAAAGATGCTTTTCTCCCTAAAAAAAAAAAAA  
AAAAA

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**FIGURE 2837**

MPGRWRWQDMHPARKLLSLLFLILMGTELTONKRENKAEKMGGPESERKTTGEKTLNELPLFCLEAHAGSLALP  
RMCSPPNPFAVGLCRPAYPQSPSPGAAQTISQSLLERFCMASRREVFLAPGRPGGGWWLCTVAGQMHSFMCTHTH  
THAHTGEQIPAEKSQPGPD

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**FIGURE 2838**

TGGTTACTGAGATGGTGAAAACCAGGGGAGACCTGGGGGACATCACAAGCTTGGTTCCTACCAGGTTTATGGAGC  
CGTACATCTTTGGGAGCCGCTGGACCACGACATCATCGACCTGGAACAGACAGCCACGCACCTCCAGCTGGCCT  
TGAACCTTCACCGCCACATGGCCTACCGCAAGGGCATCATCTTGTTTATAAGCCGCAACCGGCAGTTCTCGTACC  
TGATTGAGAACATGGCCCGTGACTGTGGCGAGTACGCCCACACTCGCTACTTCAGGGGCGGCATGCTGACCAACG  
CGCGCCTCCTCTTTGGCCCCACGGTCCGCCTGCCGGACCTCATCATCTTCCTGCACACGCTCAACAACATCTTG  
AGCCACACGTGGCCGTGAGAGACGCAGCCAAGATGAACATCCCCACAGTGGGCATCGTGGACACCAACTGCAACC  
CCTGCCTCATCACCTACCCTGTACCCGGCAATGACGACTCTCCGCTGGCTGTGCACCTCTACTGCAGGCTCTTCC  
AGACGGCCATCACCCGGGCCAAGGAGAAGCGGCAGCAGGTTGAGGCTCTCTATCGCCTGCAGGGCCAGAAGGAGC  
CCGGGGACCAGGGGCCAGCCACCCTCCTGGGGCTGACATGAGCCATTCCCTGTGATGTTCACTCTCCTCCAAA  
GCAAACCACAGCCAGCTGGGTGGTGGGACAGCCAGGCCAGATGACCTGATTCCAGCAAAAATAAACTCAGATT  
TGGGCAAAATG

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**FIGURE 2839**

CTGGTCCAGGCACAGCCTTGCCACAGTCCAGAGAAGGCCACCTCTAATGGGGCCTGCAGGCATTGTGGCCACAGG  
AGGAAAGGGCCGGGGGGCCCCCTCTCCCCACTCCTGGGGCAGCTCCCTTGCCCTTCCCCAGCCTCAGGCACTCTCA  
TCATCTCCGTTGGCCTCTTCTGGGGGCTCTTGGGGTTTCATCTCCAGGGTGGAAAACCTGGAGGGCCCCCTCTGGC  
AGAGTCAAGGATGGGGTCAGCGAGACCCCATCCCCCTCAGCCCTCAACCTTTGTTTCACCCAGAGCCCCCTCTGAAT  
CCTGGGAGCTGGCTCTTTCCACTCCCCGAGGGGGGCCCTCAGGCCCACCCTGGCTGTCCCAGCATGCCCCCGCGG  
CTTCTGCGCTGCACCCTTCCCGTCCCTCCCTGCTCCTCATGGICACTAGTGCCTGCTTATCCACTGGGTCATCCC  
CTCGGCCAGGGCCCCCTCTGCCCTGGAAGCCCAGCAAGCGCCCACTCGTAGCTCCTCAGCGGGTCCCTCGCCGGCC  
TGTGCCAGGTGCAGGGGCCAGTGGGAGGACAACAGGAGCCACGCAGGCCATCAGCGCAAGAGCAAACGCACATGG  
CAACGTTGGTCCGCTCAGCCACTGGTTCTGTGGTGGAAACGGTGGATGTCTGCACGTTGACATCAGCTGAGTACGA  
GAACTGCCGGTTGCGGCTTATAAACAAGATGATGCCCTTGCGGTAGGCCATGTGGGCGGTGAAGTTCAAGGCCAG  
CTGGAGGTGCGTGGCTGTCTGTTCCAGGTCGATGATGTCGTG

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**FIGURE 2840**

MAPAASALHPSRPSLLLMVTSACLSTGSSPRPGPLL PWKPSKRPLVAPQRVLAGLCQVQGPVGGQQEPRRPSAQE  
QTHMATLVR SATG SVVERWMSAL



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FIGURE 2841

GGGAAGCGACGAGTCCGGGACGCCCAGCGCGGGCCCCGGAGCAGGGGAAGGGAAGTGC GGCTCGGTGCGCGCGGG  
TGGAGGGGGCGTGAGGCCGCCCTACGGTGGCCGTCGAGGGACGGCGCTACGGCTCCACGCTAGGCCAAACGCCT  
CCGGCGGCCGCGCCCCGAGAGCCCCCTTACCTGCAGGGCGACCCAGCCGGCGACGCGTGAACCACGCCCTCAGCC  
GCCTTGCCAGCGCCCCCAGCCGCGCGCCCCAGCACCATGCGGCCGCCCTGCGCACGGAGCCCCGAGGGACAGGGG  
CACCCGACAGGCCCGGCCCTAGCACCGCCGCGCGCCCCGAGGTCCGGGACGCGCGCGCGCGCGGAGAGGGCA  
CCGGGGCGACGCTCCCCCAGGGTCAGCTGCGGGCTCCCAGGCCCTAGGCGCCCATGACCCCTACGCCAACAGCC  
GCCTGGACACCGCGCGGCCCACTGCGACCTAGCGCCGCGCGCGCGGGGCCCAATGCCGGTTCATGCCATTCCGC  
GGCGGGTGCGCTCCTTCCACGGCCCGCACACCACCTGCCTGCATGCGGCCCTGCGGGCCCGTGC GCGCCTCCACC  
TGGCCCGCACCAAGTACAACAACCTTCGACGTGTACATCAAGACGCGCTGGCTGTACGGCTTCATCCGCTTCCTAC  
TCTACTTTAGCTGCAGCCTGTTCACTGCGGCGCTCTGGGGTGCGCTGGCCGCCCTCTTCTGCCTACAGTACCTGG  
GCGTTCGCGCTCTGCTGCGCTTCCAGCGCAAGCTGTGCGTGCTGCTGCTGCTGCTGGGCGCGCGCGCTGGACT  
TCCGCCTGGTGAACGAGCTGCTCGTCTATGGCATCCACGTACCATGCTGCTGGTGGGGGCCCTGGGCTGGTGCT  
TCATGGTCTTCGTGGACATGTGAGGGCCGTGGGTGCGAGCTTGATGTATCGTCCCGGCCCTGTGGCTGTGTTCTCT  
CCATGGGTGGGGTGGGCCAGCGCCTTCCCTTCGCCCATCCCCAGGCAGTCGCTGCTGCCCGCGCGCCACGGAGA  
GAAAAGAAAGGGCTGAGACTTCTGTGATGGGGGCGCGGACACCACCCCTAGGCTGGCTTCCTGGACCCACCCTCC  
CCGTATGCACTCTCAGGGGACGCGCCACCTGCCGGTGGCTCCTGCTCACATGCTTCGGGTCTACTGCGGGGT  
GGGCCCCCGCTTCCGCCTCTCTGTGGGCCCTCTCTCCAGGACCACAGCTGCCAGGGACTTTAGACATCACCTGGG  
AGGCCCCCTGGACACAGAGGGCTGTGTGCCAGGAGCAATCCGGAGGGGGGCCCTCCTGGCTGCACAGCCCCCTC  
TGCGTGCCCTGGCCCCAGCCCCAGCCAACGGGACACGGAAGGCTCCCCTCGCTGACACACCACACTGCCACAAAG  
CTGCTTACTCTGCCCTGGGCCGCTGAGGCCCTGGCACTGCCCGGGACCACCCTGTGTGTGTATCTGAGGGGC  
TGTGTGGGTCTGAGTCCCCAGCCAGCCTTCAGGGTCCCCTTGGATTGTGTAGATGCAGTCTAGCGGGGGGCCGG  
AGAAGGGCTCAGGTGGGAGGGGCTCAGCAGGCTCCAGCTCAGGGGCTGGCCTGGGGGGAACCTGGGAGCCAG  
GGGCTGACTCCAGCAACACTGGCCTGTCTGCCTGTTCTGGGAGGGCTGTGAGGATGTCTTGCA~~GATG~~CTCTGGAT  
TTCTGCGGAGGCACCTCCATTCTTTCTGGCTTTTTTTGCGGGGAGGGCTTTGGGCCCTTTCTTTGAGGGAAC  
ACCGTCAAAGAAAGCCTGGGAGATCGAGGCTTCAGTGAGCCAGGATGGAACGCGTGTCCTCAAGTGTCCGGAGCA  
GGCGGCAGAGGCCTCAGTGCGGCAAACACAGCCCCAGAGCCTGTGTGGCACCAGCAGCATCTTAGAGCCCCAGGT  
ATATGCTGAGATCTTATCTACGCTGTCTCCAGTGTCTGGGGGGCCCAATGATGGCACAGGGGCAGGTGGGCT  
GGAGGGGCGCAGATGCCTGTGTTCAAGGAGGGTGCCACCATGGGCCGAGGTCTACCCAGGACCCCTTGCTCTG  
CTCCTCAGCCTTGCACTCAGGCAGCACTATGGTGGACTGCCCATGGCCGTG~~TGAC~~TTTGGGGGCAAGTGGGAGG  
GCGCCCTGAATAATGATTGCAAGGACAACAGGCAGAGGCTACCTAGAGCAGGACACAGGGGTGTGGTACTGACAA  
CCCTAGTGTACCTCAAATCCATGTCCCCACACTCTGGGCATGGGTGGGACTTGTGACCTACCTGTGAGGCGG  
ACCAAGTGGCCAGGAGCCATGAGGACAGTTGTGTGCCACTGGAAGAGAAACTTTTTGAAAAACCTAAATCAGGT  
AGAGAAAGCAAAAAATCTTGCCCGTAAACCGTGCTCTCTAATTTATCGGCAGCTTCTGTGGATGACCTCTGATG  
AGCCCGGGCTGCGTCCACGCCCTGGGCAGGTAGGCGGGAGCTTCCTGCGTGGGCCCTATTTCTGTGTCAGAGA  
ATCTTTTGCACTAAGTCATGCTGTTTCTCAAAGAAGCTTTGTTTTTTGTTAACGTATTACTCAGAGTCACCCAA  
GCCTCTTGCTGAGGGTGAAGGTGGGACGGGAGGCGGGAGGGGGCTGGTGGTGCCGCTCGTGCGGTGTCAACGCT  
GCAGGGAGTTGTGGCACCTTGGTGCCCTCTGAGCACCTGGCCGCTGCTGTCCCCGGTGCTGTGAAATTGCTCA  
TGCCATGACCCACCTGCATTAAACCTATTTTTTTAATGTG

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**FIGURE 2842**

MLWISAEAPPFLSGFFCGGGLWASFFEGTPSKKAWIEIASVSQDGNACPKCPEQAAEASVRQTQPQSLCGTSSIL  
EPQVYAEILSHAVLQCLGGPNDGTGAGGLEGRRCCLCSGRVATMGRGLTQDPLLCSSALQSRQHYGGGLPMAV

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**FIGURE 2843**

CTGGGCTGGTGTTCATGGTCTTCGTGGACATGTGAGGGCCGTGGGTGCGAGCTTGATGTATCGTCCCGGCCTGT  
GGCTGTGTCTCTCCATGGGTGGGGTCGGCCAGCGCCTTCCCTTCGCCCATCCCCAGGCAGTCGCTGCTGCCCCG  
GCGCCACGGAGAGAAAAGAAAGGGCTGAGACTTCTGTGATGGGGGCGCGGACACCACCCTAGGCTGGCTTCCT  
GGACCCACCCTCCCCGTATGCACTCTCAGGGGCAGCGCCACCTGCCGGTGGCTCCTGCTCACATGTCTTCGGGT  
CGTACTGCGGGGTGGGCCCTCCGTTCCGCCTCTCTGTGGSCCTCTCTCCAGGACCACAGCTGCCAGGGACTTTAG

ACATCACCTGGGAGGCCCTGGACACAGAGGGCTGTGTGCCAGGAGCAATCCGGAGGGGGGCCCTCCTGGCT  
GCACAGCCCTTCTGCGTGCCCTGGCCCCAGCCCCAGGTATATGCTGAGATCTTATCTCACGCTGTCTCCAGTG  
TCTGGGGGGCCAAATGATGGCACAGGGGCAGGTGGGCTGGAGGGGCGCAGATGCCTGTGTTCAGGGAGGGTGGC  
CACCATGGGCCGAGGTCTACCCAGGACCCCTTGCTCTGCTCCTCAGCCTTGCAGTCACGGCAGCACTATGGTGG  
ACTGCCCATGGCCGTGTGACTTTGGGGGCAAGTGGGAGG

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**FIGURE 2844**

MGGVGQRLPFAHPPGSRCCPAPTERKERAETSVMGARTPPLGWLPGPTLPVCTLRGSALHPVAPAHMSSGRTAGW  
ALRSASLWASLQDHSCQGL

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**FIGURE 2845**

CTCGTGGACACCTGCCACCGGGCCATGAGGACCACCTTCCTCCACATCTCCAAGACCCCCCAGGAGAACGGGGCC  
ACTGCGGGGTCTGGCGTGCAGCCGGCCCCAGTAGCCCAGACCACGGCAGGGCATGACCTGGGGAGGGCAGGTGGAA  
GCCGATGGCTGGAGGATGGGCAGAGGGGACTCGCGCCCACGGCACCTCTGGGAGCTGGGATGATAAAGATGAGGC  
TTGCGGGCTGTGGCCCGCTGGTGGGCTGAGCCACAAGGCCCCGATGGCCCAGGAGCAGATGGGAGGACCCCGAGG  
CCAGACGCACACTGTCCGAGCCCTCTGCTCAGCCGCCTGGGACCCACCAGGGTGCAGCTGGGCTCCAGGGTCCAG  
CCCACAAGCTGCATCAGGCTCTCTGGGAGAGGAGGGGCCTGGAGGGCCAGGAGTCCCAGACTCACGCACCCTGGG  
CCACAGGGAGCCGGGAATCGGGGCCTGCTGCTCCTGCTGGCCTGGAAGACTCTGTGGGGTCAGCACTGTACTCCG  
TTGCTGTTTTTTTATAAACACACTCTTGGAAGTGGCTGGGGAGCTGTGGTCACTCACAGGGCGGGCAGGTGACCA  
GGGCGGTGGAGGCGACGCTGTGTCTTCCCAGCTGCCCTGCCTAGAGGCCCAGGGTGCAGGCACCGCCACCCACCC  
GTGTTCCCTATCCAGGAGTGGACCCACATCACCT

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**FIGURE 2846**

CGCGGGGAGAAGCGGGAGCGGGAGCGGGAGCGAGCTGGCGGCGCCGTCGGGCGCCGGGCCGGGCCATGGAGCTG  
TGGCCGTGTCTGGCCGCGGCGCTGCTGTTGCTGCTGCTGCTGGTGCAGCTGAGCCGCGCGGCCGAGTTCTACGCC  
AAGGTGCCCCGTACTGCGCGCTGTGCTTCACGGTGTCGCGCTGGCCTCGCTCGTCTGCCCTGCTGCGCCACGGC  
GGCCGGACGGTGGAGAACATGAGCATCATCGGCTGGTTCGTGCGAAGCTTCAAGTACTTTTACGGGCTCCGCTTC  
GAGGTGCGGGACCCGCGCAGGCTGCAGGAGGCCCGTCCCTGTGTATCGTCTCCAACCACCAGAGCATCCTGGAC  
ATGATGGGCCTCATGTACCTCGGGGGCGTCTTCTTCATCAACCGGCAGCGCTCTAGCACTGCCATGACAGTGATG  
GCCGACCTGGGCGAGCGCATGGTCAGGGAGAACCTCAAAGTGTGGATCTATCCCGAGGGTACTCGCAACGACAAT  
GGGGACCTGCTGCCTTTTAAGAAGGGCGCCTTCTACCTGGCAGTCCAGGCACAGGTGCCCATCGTCCCCGTGGTG  
TACTCTTCCTTCTCCTCCTTCTACAACACCAAGAAGAAGTCTTCACTTCAGGAACAGTCACAGTGCAGGTGCTG  
GAAGCCATCCCCACCAGCGGCCTCACTGCGGCGGACGTCCCTGCGCTCGTGGACACCTGCCACCGGGCCATGAGG  
ACCACCTTCCTCCACATCTCCAAGACCCCCAGGAGAACGGGGCCACTGCGGGGTCTGGCGTGCAGCCGGCCCCAG  
TAGCCCAGACCACGGCAGGGCATGACCTGGGGAGGGCAGGTGGAAGCCGATGGCTGGAGGATGGGCAGAGGGGAC  
TCCTCCCGGCTTCCAAATACCACTCTGTCCGGCTCCCCAGCTCTCACTCAGCCCGGGAAGCAGGAAGCCCCTTC  
TGTCAGTGGCCTCAGACACAGGCCCCCTGGTGTCCCTGCAGGGGGCTCAGCTGGACCCTCCCCGGGCTCGAGGGC  
AGGGACTCGCGCCACGGCACCTCTGGGAGCTGGGATGATAAAGATGAGGCTGCGGCTGTGGCCCGCTGGTGGG  
CTGAGCCACAAGGCCCCGATGGCCAGGAGCAGATGGGAGGACCCGAGGCCAGACGCACACTGTCCGAGCCCT  
CTGCTCAGCCGCTGGGACCCACCAGGGTGCACTGGGCTCCAGGGTCCAGCCACAAGCTGCATCAGGCTCTCT  
GGGAGAGGAGGGGCTGGAGGGCCAGGAGTCCAGACTCACGCACCCTGGGCCACAGGGAGCCGGGAATCGGGG  
CTGCTGCTCCTGCTGGCCTGGAAGACTCTGTGGGGTCAGCACTGTACTCCGTTGCTGTTTTTTATAAACACACT  
CTTGGAAGTGG

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**FIGURE 2847A**

GGGGAGAACACTTCTTTGTCTGGGATTCCAACCAGCTCTGTCTTAGCTTGTCTCTGCCTAGCAGTGTTGCCCAA  
AGTAATTTTCCACAAGGTTCTGGTGCTTCCGAAATGGTTTCTAATCAGCCTGCTAATTTGCTGGTTCAACCACCA  
TCCCAGCCAGTTCCAGAGAAGTTGGTTCCAGAAAGTCAAAAGGATCGTAAGGCAGGAAGTGCTCTTCCCGGATTT  
GCTAATAGCCCTGCTGGAAGCACAAAGTGTGGTGTAGTTCCACCTGCACACGGCACCCCTGGTGCTGATGGTAAT  
AAGGCAAAACCATTCCAGTCATCAGGAAGACACTTACGGAGCCCTAGACTTTACCTTAAGCAGGACTTTGGAAAAAT  
CCTGTAAACGTGTACAAACCGTCCCATTCTGACAGCCTCGCTTCTCAGCAAAGTGTTGCCAGTCATCCCAGACAA  
TCTGGGCCCTGGGGCGCCTAACCTTGACCGTTTTTATCAGCAGGTACAGAAAGATGCCCAGGGCCAGCCTGGCCTC  
GAAAGAGCCCAGCAGGAGCTGGTGCCACCCAGCAACAGGCTTCTCCCCACAACCTACCCAAAGCCATGTTTTCG  
GAGCTGTCAAATCCAGAAAGTCTGCCCGCACAGGGACAGGCCCAGAACTCAGCACAGTCACCAGCAAGTCTGGTT  
CTGGTCGACGCGGGTACGAGCTGCCCCCTCGGCCTCCTCAGTCTCTAGCGTGTCTCTGGTGTCCAGTGGCTCC  
GGCCAGGCAGCTGTGCCGTGAGAGCAGCCGTGGCCACAGCCAGTGCCCTGCACTTGCCCCCGGCCACCGCCTCAG  
GACCTGGCCGCTACTACTACTACCGGCCTTTGTACGATGCCTACCAGCCTCAGTACTCTTTGCCGTACCCACCG  
GAGCCTGGCGCAGCCTCCCTCTATTACCAGGATGTCTACAGCCTCTATGAGCCTCGATACAGGCCCTATGATGGT  
GCTGCTGTGCTTACGCCCAGAACTACCGCTATCCCGAGCCCGAGCGGCCAGCTCCCGAGCCAGCCACTCCTCG  
GAACGCCACCTCCCAGGCAAGGATATCCTGAAGGATACTATAGTTCCAAAAGTGGATGGAGCAGTCAGAGCGAT  
TACTATGCAAGCTATTACTCCAGCCAGTACGATTATGGAGATCCAGGTCACTGGGATCGTTACCACTACAGTGCT  
AGAGTCAGGGACCCCCGACCTATGACCGGAGGTATTGGTGTGATGCAGAGTATGACGCATACAGGAGAGAGCAC  
TCTGCCCTCGGGGACAGGCCCGAGAAACGTGACAACAACGGAGGTACGATCCTCGCTTACGGGGAGTTTTGAC  
GATGACCCCGATCCGCACAGAGACCCTTATGGGGAAGAGGTGGACCGCGCAGCGTCCACAGCGAGCACTCGGCA  
CGGAGCCTGCACAGCGCACACAGCCTGGCCAGCCGCGCAGCAGCCTCAGTCCCACTCGCACCAGAGTCAGATT  
TACAGAAGCCACAATGTGGCTGCCGTTTCTACGAGGCCCGCTTCTCCAGGCTCCTTTACGGCGATTTTTGCC  
TACGGCACCTACCGCAGCAATTTACGAGTGGCCCCGGCTTCCAGAGTATGGCTACCCTGCCGACACCGTCTGG  
CCTGCCATGGAGCAAGTTTCATCAAGACCAACTTCTCCTGAAAAATTTTCAGTGCCTCATGTCTGTGCCAGGTTT  
GGCCCTGGCGGTGAGCTTATCAAAGTGATTCCCAATCTGCCTCAGAAGGACAGCCGGCCTTGGTGGAGGTCCAC  
AGCATGGAGGCTTGTGTCAGCACACGTCGTGAGCAGGAGGAGATGCGGGCGTCCCGGGACCCCTGGCCAAAGAC  
GACACCCATAAGGTGGATGTCATTAATTTTGCACAGAACAAGCTATGAAATGTTTGAGAATGAAAACCTTAATT  
GACAAAGAGTCTGCAAGTCTTCTTTGGAATTTATTGTTCTCTATGCAGACAAAATGGGACCGTGGTAGGGACC  
GACATTGCGGAGCTTCTGTTACGAGACCACAGAACAGTGTGGCTTCTTGGGAAGTCGCCCAATGAAGCAAACCTG  
ATTGATTTACGAATGAGGCAGTGGAGCAGGTGGAAGAGGAGGAGTCTGGTGAGGCCCAGCTCTCTTTCTCCTACT  
GGTGGTCCGGCGGCTGCCGCCAGCTCGCTCGAGAGAGAGACCAGAGGTTACGGGAGCTGTTGCTGTATGGCCGT  
AAGAAGGATGCTTTGGAGTCTGCAATGAAGAAATGGCCTGTGGGGTCACGCTCTGCTACTTGCAAGTAAGATGGAC  
AGCCGGACACACGCCCGAGTCATGACCAGGTTTGCTAACAGCCTCCCAATCAACGACCCCTCTGCAGACAGTCTAC  
CAGCTCATGTCCGGACGGATGCCTGCCGCTCCACGTGCTGTGGAGACGAGAAATGGGGAGATTGGAGGCCGCAC  
CTCGCCATGGTCTTGTCCAACCTGAACAACAACATGGACGTCAGTCCAGGACGATGGCTACCATGGCGCAGACT  
CTGGCTTCAAGGGGCTCTTGGATGCGGCCACITCTGCTACCTCATGGCCAGCGGGGATTTGGTGTTTACACG  
AAGAAAACCTACAAAGCTTGTCTTAATCGGATCCAATCACAGTTTGCCATTCTTAAAGTTTCGAACCAACGAAGCA  
ATCCAGAGGACGGAAGCCTATGAGTACGCCAGTCCCTGGGTGCCGAGACCTGCCCCCTGCCTAGTTTCCAGGTG  
TTTAAGTTTCACTACTCTGCGCCTGGCGGAAATGGGGCTGGCCACGCAAGCCTTCCACTACTGTGAGGCCATC  
GCGAAGAGCATCCTGACGCAGCCGCACCTGTATTTCCCGGTGTTGATCAGCCAGCTTGTGAGATGGCTTCCCAG  
TTACGACTCTTCGATCCCCAGCTGAAAGAGAAGCCAGAAGAGGAGTCCTTGGCCGCACCCACGTGGCTGGTTTAC  
CTGCAGCAGGTGGAGCGGCAGATTAAGGAGGGGGCTGGAGTATGGCATCAGGATGGAGCCCTCCCGCAGCAGTGT  
CCTGGCACTCCGAGTTCCGAGATGGAGCAGTTGGACAGGCCAGGACTCAGTCAGCCAGGAGCCCTGGGGATCGCC  
AACCCTCTGCTGGCGGTGCTGCACCGAGCCCTGAGCACTCGAGCCCGAGCGTGC GGCTGCTGCCCTCAGCTCCG  
CAGACGCTCCCTGACGGGCCATTGGCCAGTCTGCCAGAGTGGCGATGTTCCAGTGCCACTGCCCCCGGGGCC  
CTGGAGCCGGGTCTTGGCTGTGTGACCCAGGGCCTGCACTTGGCTTCTTGGAGCCCTCCGGGCTGGCCTCCCA  
CCTGGTGTGCCACCTCTGCAGGAAAGGAGACACTTGCTCCAGGAAGCCAGGAGCCCAGACCCAGGGATAGTGCCG  
CAGGAGGCGCCTGTTGGAAACTCACTTTCCGAGCTAAGCGAAGAAAATTTTGATGGAAAATTTGCTAATCTGACC  
CCCTCGAGGACGGTGCCAGACTCGGAGGCCCCCCCCAGGGTGGGATCGTGCCGACTCGGGTCCCACGCAGCCACCT

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**FIGURE 2847B**

CTGTCTCTCTACCCGCTCCCGAAACAAAGAGACCCGGACAGGCAGCCAAGAAAGAAACGAAGGAACCTAAGAAG  
GGTGAATCCTGGTTCCTTCGTTGGCTACCTGGAAGAAAAAGACAGAAGCTTATTTGCCAGATGACAAGAACAAA  
TCGATTGTTTGGGATGAAAAGAAAAACCACTGGGTGAATTTAAATGAGCCAGAAGAGGAGAAGAAAGCCCCGCC  
CCACCTCCAACCTCGATGCCCAAGACTGTGCAAGCTGCCCCGCTGCCCTCCAGGGCCTCCTGGAGCCCCCGTG  
AACATGTACTCTAGAAGAGCAGCAGGAACCAGAGCTCGCTACGTTGACGTCTGAACCCAAGCGGGACCCAGCGG  
AGCGAGCCGGCTCTCGCTCCTGCGGACTTTGTGCTCCACTCGCGCCACTCCCAATTCCTTCTAAGTTGTTCTGTG  
CCAACCCCACTGAGACCCCAAGGACGTTCCGGGACGGAATGATGGCCTCCTCGCTCTCTCATCCCCAGATGCAGAA  
GAACCACAGCTTCCAGACGGGACTGGCAGGGAAGGGCCTGCAGCAGCTAGGGGCCTGGCCAATCCAGAGCCTGCC  
CCAGAGCCCAAGGTTTTAAGCTCTGCAGCGTCACTCCCTGGCTCTGAACCTCCCTCCTCCAGGCCTGAGGGTTCC  
CAGGGAGGAGAGCTTTCGCGCTGTAGTTCAATGAGTTCATTATCACGTGAAGTGAGCCAGCATTTTAATCAGGCT  
CCTGGCGACCTCCCTGCTGCAGGGGGCCCTCCAGCGGGGCCATGCCCTTCTACAACCTGCTCAGCTGGCACAG  
GCCTGCGCCACCTCCGGGAGCTCAAGGCTAGGGAGGATTGGCCAGAGGAAGCACCTGGTGCTGAAGTGGCTTGC  
CCTGCTGTGAAGTTGCACTTGGAGCCCTGACGCTGCTGTTCTCCCCGAAGAACCCGACCGACCTCCGCGATCTCC  
GTCCCGCCCCCAGGGAGACACAGCAGTGACTCAGAGCTGGTCGCACACTGTGCCTCCCTCCTACCGCCCATCGT  
AATGAATTATTTGAAAATTAATTCACCATCCTTTAGATTCTGGATGGAAGACTGAATCTTTGACTCAGAAT  
TGTTTCCGGAAGAATGATGTGACTTTCTTAGTCATTTAGGATGATTTAAGGATATAGTATTCCTGGTCATTTA  
AGAATGTTTATTGAGCCGGAGCTGTCTCGCCACAGGAGAGCCACATGGTCGGTAGTAACAGGGCCTCT  
CCAAGCCCAGCTGTGAGTCACTGCCCAGTGAGTCCCGCGCTTCCTTTAAGGTGCTGGGAGCAAAGAGAGGGTGAC  
TGAGGCAGACCCCAACCCCTGCTCTGCACCATCTGGGCCCTCGCCGTGTTTGAACCTGGCTGAATGAGTGGAGGG  
CGCTGTGTTCTCAATCAGCGCCTCCGAGGAGCCGTGGGGTTCCTTCGGCATTAGTTCACGGTTTTTGAGAGAGGC  
CTTAGTTACTGCAGTGAATTTCTTTCTGTTGCAAAGACGTTCCAGCCTCACTTTACTTTCTGTGGCCTGATGA  
GGACCATGGGTGATTTTGTGTACCCAAAGCGCTGGGGACTGCCACCGTGTGGCCAGTCACTGGGAAGGAGCCC  
CAGAGAGCCGGCTGTCTGACATGATGGCTCAGGGTGGTTCATCCAGGTTGAAAAGTACCGTGTGATGTTGATTT  
GGGCTTCATTTCTGTGTAGGAGCACGGTTAGACTCACTGTTAAGGAAGCTGGATGCACTTCTCTAAAAGGCTGC  
ACTTTCCGTGAGCACTTTTCTGTGTACAATCCACATGACCCACTTTCTCCCTGGGGACGTTGGTTCAGAGGTT  
GGTAGCACTTGGGGAGAGTATCTTAACACAGTTCTTGACAGCAGCTCTGGAACCTAGTATTTCTGCCCCGAGTT  
TTGCCACACTGAGACTTTGAGTAGCTCCTGGTGGACTCAACCTGTTCAACTCAGAGACGGGCCTCCTCTCACTG  
ATGCAAAGCTTTAAGGCTTCTCTGACTGTTCTGAACTCTTCGTATTCTTGTCAAGTCTAAAGAGACTGAAGAAA  
AGATTTAAATACTAATAAAAAATCAGTAGATAATTTCTGTAGGTTCTGCTGGAGGAATACAAACTGTTTGGTGTTT  
TAAATTTAAGGTAGAAATGTAGAATGTGGAATTAGCACAGATCCTTCCTGGCTTTCTGTTTCACTTGATCATT  
TAGCCCAGACCCAGGATGTTTTCCAAAATGTTCCACAGGCGTGTCCCGCTGGATCCATTGTCTTGTCACT  
TGGAGAAAGGCCAGTCCCTGTGACGGGGCAGCCCTCTCTGTCCCTCGGTCAGCTCGTGTGAATCCTGGGACCTCT  
TCCGGTGGCTCTGCCCGCTGTTCTGGGGTCGACTGCCACGACTTTTGATTCAAGAAGCTTCTCCAGGCGGGAG  
CGGCTATTTTCTTAAATGAGAATTGTTACATTGCAAATGTTGAATAAAATATTTTGGCTCCTTCAA



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**FIGURE 2848**

METLCAPQVCPLPLNSTTEAVHMLPHAGAPPLDTVYPAPEKRPSARTQGPVKCESPATTTLWAQSELPDFGGNVLL  
APAAPALYVCAKPPVQPFEEAMSGQQSRNPSSAAPVQSRGGIGASENLENPPKMGEERALQSQASSGYASLL  
SSPPTESIQNPVLI AQPDHSYNLAQPINFSVLSNSHEKNQSWREALVGDRPAVSSWALGGDSGENTSLSGIPT  
SSVLSLSLPSSVAQSNFPQSGGASEMVSNOQANLLVQPPSQVPENLVPE SQKDRKAGSALPGFANSFAGSTSVV  
LVPPAHGTLVPDGNKANHSSHQEDTYGALDFTLSRTLENPVNVNPSHSDSLASQQSVASHPRQSGPGAPNLD RF  
YQVTKDAQGQPGLERAQQELVPPQQQASPPQLPKAMF SELSNPESLPAQGQAQNSAQSPASLVLDAGQQLPPR  
PPQSSSVSLVSSSGQAAPVSEQWPWPQVPALAPGPPPQDLAAYYYRPLYDAYQPQYSLPYPEPGAASLYYQD  
VYSLYEPRYPYDGAASAYAQNRYRYPEPERPSSRASHSSERPPPRQGYPEGYSSKSGWSSQSDYYASYSSQYD  
YGDPGHWD RYHYSARVRDPRTYDRRYWCD AEYDAYRREHS AFGDRPEKRDNNWRYDPRFTGSFDDDPDHRDPYG  
EEVDRRSVHSEHSARSLSAHSASLARRSSLSHSHQSQIYRSHNVAAGSYEAPLPPGSFHGDFAYGTYSNFSSG  
PGFPEYGYPADTVWPAMEQVSSRPTSPEKFSVPHVCARFGPGGQLIKVIPNL PSEGQPALVEVHSMEALLQHTSE  
QEEMRAFFGPLAKDDTHKVDVINFAQNKAMKCLQENENLIDKESASLLWNFIVLLCRQNGTVVGT DIAELLRLDHR  
TVWLP GKSPNEANLIDFTNEAVEQVEEESGEAQLSFLTGGPAAAASSLERETERFRELLLYGRKKDALESAMKN  
GLWGHALLLASKMDSRTHARVMTRFANSLPINDPLQTVYQLMSGRMPAASTCCGDEKWDWRPHLAMVLSNLNNN  
MDVESRTMATMGDTLASRGLLDAAHFCYLMAQAGFGVYTKKTKLVLIGSNHSLPFLKFATNEAIQRTAEYEAQ  
SLGAETCPLPSFQVFKFIYSCRLAEMGLATQAFHYCEAIAKSILTQPHLYSPVLISQLVQMASQLRFLDPQLKEK  
PEEESLAAPTWLVLHQQVERQIKEGAGVWHQD GALPQQCPGTPSSEMEQLDRPGLSQPGALGIANPLLAVPAPSP  
EHSSPSVRLLP SAPQTL PDGPLASPARVPMFPVPLPPGPLEPGPGCVTPGPALGFLEPSGPGLP PGVPFLQERRH  
LLQEARS PDPGI VQEAPVGNLSLSELSEENFDGKFANLTPSRTVPDSEAPPGWDRADSGPTQPPLSLSPAPETKR  
PGQAAKETKEPKKGESWFFRWLP GKKKTEAYLPDDKNKSIWDEKKNQWVNLNEPEEEKKAPPPPT SMPKTVQ  
AAPPALPGPPGAPVNMYSRRAAGTRARYVDVLNPSGTQRSEPALAPAD FVAPLAPLP IPSNL FVPTPDAEEPQLP  
DGTGREGPAAARGLANPEPAPEPKVLSSAASLP GSELPS SRPEGSQGGEAPGDLPAAGGPPSGAMPFYNPAQLAQ  
ACATSGSSRLGRIGQRKHLVLN

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**FIGURE 2849**

AGACGCAAGATGGCGGCTGTGGTGCTGGCGGCGACGCGGTTGCTGCGGGGCTCGGGTTCTTGGGGCTGTTGCGGG  
CTGAGGTTTGGACCTCCTGCGTACAGACGGTTTAGTAGTGGTGGTGCCATATCCCAACATCCCCCTCTCTTCTCCC  
TTACCTGGAGTACCCAAGCCTGTTTTTGTCTACAGTTGATGGACAGGAAAAGTTTGAAACCAAAGTAACCACATTG  
GATAATGGGCTTCGCGTGGCATCTCAGAATAAGTTTGGACAGTTTTGTACAGTAGGAATTCTTATCAATTCAGGA  
TCGAGATATGAAGCGAAATACCTTAGTGAATTGCTCACTTTTTGGAAAAATTGGCATTTCGTCTACTGCTCGA  
TTTGACAGCAAAGATGAAATTCTGCTTACGTTGGAAAAGCATGGGGGTATCTGTGACTGCCAGACATCAAGAGAC  
ACCACCATGTATGCTGTGCTGCTGATAGCAAAGGCTTGGACACGGTGGTTGCCTTACTGGCTGATGTGGTTCTG  
CAGCCCCGGCTAACAGATGAAGAAGTCGAGATGACGCGGATGGCGGTCCAGTTTGAGCTGGAGGACCTGAACCTG  
CGGCCTGACCCAGAGCCACTTCTCACCGAGATGATTCATGAAGCGGCTTACAGGGAGAACACAGTTGGCCTCCAC  
CGTTTCTGCCCCACAGAAAACGTAGCAAAGATCAACCGAGAGGTGCTGCATTCTACCTGAGGAACTACTACACT  
CCCGACCGCATGGTGCTGGCCGGCGTGGGCGTGGAGCAGCAGCATCTGGTGGACTGTGCCCCGAAGTACCTCCTG  
GGGGTCCAGCCGGCTGGGGGAGCGCAGAGGCCGTGGATATTGACAGATCTGTGGCCCAGTACACTGGGGGGATT  
GCCAAGCTAGAAAGAGACATGTCCAATGTGAGCCTGGGCCCCAGCCCCATCCCCGAGCTCACGCACATCATGGTT  
GGACTGGAGAGCTGCTCCTTCTGGAGGAGGACTTCATCCCCCTTTGCAGTGTGAACATGATGATGGGCGGAGGT  
GGCTCCTTCTCGGCTGGTGGGCCCCGCAAGGGCATGTTCTCCAGGCTCTACCTCAACGTGCTCAACAGGCACCAC  
TGGATGTATAACGCGACCTCCTACCACCACAGCTACGAGGACACTGGCCTCCTTTGCATCCATGCCAGCGCCGAC  
CCAAGACAGGTTTCGAGAAATGGTAGAAATCATCACAAGGAGTTTATTTTAATGGGCGGAACCGTGGACACGGTG  
GAGCTGGAACGAGCCAAGACGCAGCTGACATCAATGCTCATGATGAACCTGGAATCCAGGCCCTGTGATCTTCGAG  
GATGTGGGGAGGCAGGTGCTGGCCACTCGCTCCAGAAAGCTGCCGCACGAGCTGTGCACGCTCATCCGCAACGTG  
AAGCCGGAAGATGTGAAGAGAGTCGCTTCTAAGATGCTCCGAGGGAAGCCGGCAGTGGCCGCCCTGGGTGACCTG  
ACTGACCTGCCCACGTATGAGCACATCCAGACCGCCCTGTCAGTAAGGACGGGCGCCTGCCAGGACGTACCGG  
CTCTTCCGGTAGAACCGCTCCCCGGCCTGACAGACCCAGGGAGCTGCAGCTGGAGCCCGTTCCCGTGCCTGTTAG  
TTTGGACACGAATTTAGTCTAAAAAGCTGTCTGGTTGTATAAACGGTGCAACAATGTGCCCACAGCACCCACGC  
GGTTTGCATTCTTTTGGAACTCAATGTGCCGATCAGTGGAGTCAGTATCGAGCCTGACCACCGCAAGCCAGGAAG  
CAGGTGAAGTGCCACGCGCTGGAGTGCAGCGTGCCACGAGGAGGGCGGTGCGTGCTTCCCTCCTCGGGCTGTGGG  
CACATGGGGCCCCCGAGGTTTCTTGGAGGAGCCCTGAGCTGGGAGGCAGCAAAGGCTGACCTATCAAAGCCTCCC  
GGAGGCCACCGTGCTGGGTACAGGACTCACCTCTGACAAGCAGGAGAAGGTAAGGGCCCCGTGAGCTCCAAGGA  
GCGCGCTCCACGCGCGTGACACAGCTTCCCTGGTAATAAAGAGCTGGCATCTTCTT

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**FIGURE 2850**

MAAVVLAATRLLRGSGSWGCSRLRFGPPAYRRFSSGGAYPNIPLSSPLPGVPKPVFATVDGQEKFKVTTLDNG  
LRVASQNKFGQFCTVGILINSGSRYEAKYLSGIAHFLEKLAFSSTARFDSKDEILLTLEKHGGICDCQTSRDSTM  
YAVSADSKGLD TVVALLADVVLQPRLTDEEVEMTRMAVQFELEDNLNRPDPEPLLEMIHEAAYRENTVGLHRFC  
PTENVAKINREVLHSYLRNYTTPDRMVLAGVGVEHEHLVDCARKYLLGVQPAWGSAAEAVDIDRSVAQYTGGLAKL  
ERDMSNVSLGPTPIPELTHIMVGLDESCFLEEDFIPFAVLNMMGGGGSFSAGGPCKGMFSRLYNVLNRHHWMY  
NATSYHHSYEDTGLLCI HASADPRQVREMVEIITKEFILMGGTVDTVELERAKTQLTSMMLMNLESRPVIFEDVG  
RQVLATRSRKLPHLCTLRNVKPEDVKRVASKMLRGKPAVAALGDLTDLPITYEHIQTALSSKDGRLPRTYRLFR

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**FIGURE 2851**

GGCGGCCGAGCGGCGGGCGACGGGGGCGGGCGACGGGGGCGGGCGACGGGGGCCGCGGCACGGGCGGAGCCGGGG  
CCATGGAGCCGCGCTGCCGGGCTAGGCAGGTCGTGCCCCGCCGGCGGCGGCGATGTCGGGCTACCAGCGCCG  
CCCCGGCGCCACCCGCTGTCCCGAGCCCGGAGCCTCGCCATTCCCGACGCTCCAGCGTTCTATGAGCGCCGGTC  
TTGTCTCCCCCAGCTAAATTGTGAGCGCCCCCATGGCAGGGACCTGGACTCCCCCTTCTTCGGCATTGGCCGGC  
CTTTATGTGCTATGTGCCAGCCCGGTGCTGGCTTCCGTGGGAGACACAGATTTTGGCTATGGAAAGGGGAAATG  
TTCTAAGCAGAGCCCGTCAGGAGCCACGGGACACATTTTGGAGATGACAGATTTGAAGATCTGGAAGAGGCAAA  
TCCATTCTCTTTTAGAGAGTTTCTGAAGACCAAGAACCTCGGCCCTCTCGAAAGAGGATCCGGCCAGCAGAATTTA  
TGCAAAGGAAGCCTCGAGGCATTCCCTGGGACTTGACCACAACCCCCACCCTCCCAAACCGGCGGGTATGGCCT  
GGAGTATCAGCAGCCATTTTTTCGAGGATCCGACAGGGGCTGGTGACCTCCTGGATGAGGAGGAGGATGAGGACAC  
CGGATGGAGTGGGGCTACCTGCCGTCCGCCATCGAGCAGACTCACCCCGAGAGGGTCCCTGCCGGCACGTCGCC  
CTGCAGCACATACTTTCTTTTTCTCCACCCCGTCGGAGCTGGCAGGGCCTGAGTCTCTGCCCTCGTGGGCGTT  
GAGTGACACTGATTCTCGCGTGTCTCCGGCTCTCCGGCAGGGAGTCTAGCGCAGACTTTGCGGTTTATGGAGA  
GTCTCTGGGAGACAGGCACCTGCCGACGCTGCAGATAAGTTACGACGCACTGAAAGATGAAAATTCTAAGCTGAG  
AAGAAAGCTGAATGAGGTTTCAAGCTTCTCTGAAGCTCAAACAGAAATGGTGAGGACGCTTGAGCGGAAGTTAGA  
AGCAAAAATGATCAAGGAGGAAAGCGACTACCACGACCTGGAGTCGGTGGTTTCAAGCAGGTGGAGCAGAACCTGGA  
GCTGATGACCAACGGGCTGTAAAGGCAGAAAACACGTCGTGAAACTAAAACAGGAAATCAGTTTGCTCCAGGC  
GCAGGTCTCCAACCTCCAGCGAGAGAAATGAAGCCCTGCGGTGCGGCCAGGGTGCCAGCCTGACCGTGGTGAAGCA  
GAACGCCGACGTGGCCCTGCAGAACCTCCGGGTGGTCATGAACAGTGCACAGGCTTCCATCAAGCAACTGGTTTC  
CGGAGCTGAGACACTGAATCTTGTGCGGAAATCCTTAAATCTATAGACAGAATTTCTGAAGTTAAAGACGAGGA  
GGAAGACTCTTGAGGACCCCTGGGTGTCTCAGCATGAAGCTCCGTGTATACCCTGAGGTACCAACCGCTCGATC  
TAAATGTGCAGTTGTGTCTTAAATATGCAGTCTTCAACCCAGAGTAAAGTGTGATCGCAAGAGTCCAGTGTCTGT  
GCCCTCAGCCAGTTCTTGCCACCACAATGGGAGCAGCCCTGGCCGAGTTGTCTCTGTGGTTTCTATGCAGCCCT  
TCTTGCGGAAATTCCTGCGATCTTATAGATTCTAATGAGCTCTTGGAAGACATTGTATATAAAGCCAGTGATTTT  
AAGAAAAAGAGTGTTCTGGAATCAATGTTTTCCAGTCCCATCCAGAACATCAGTTGTAAGATAAGTACAATTG  
GTTGTCTTGATTTTATAGTAGAACAACACTAAATGTGCCTCTGAGATGGCCACCCGGGCGAGGACCTGTGC  
CTTCCGCCGATGCTCAGGGCTCCCTCTGGCTCCCGGCTCACTTGTGGCCCCAGTGGGTGGTCCCTGCAGTCAT  
GGCCTGAGTGCGCAGGGGCCACCGCGTGGCTGCTGCTGCTCCTCCTCCGGGACCCACGGGGACCAAGGTACACGT  
TCCGTGCTGTGAAGCTGTCCAGATGTGCTCTTTGGCTGGGGGTTCTGGTGGACGTTTCAAGTGGCATTGTGTAC  
AATGCAGGTTAGAATTCAGGAATTTCAAGTATGTGCCCGGGTCTGTGAGGTCCAGTTGCCCTTCTGACGGCCCC  
CCTCAGAGGGACGGCGATGAGCACTAAATGCTTTTTTACTATTTTCTATAGATTTTTTTTAAACTTTTTTTT  
CTCCTGTTCCAATTGATAGCTTTCTTATTTAATAAATCTGTAGTTACCCGC

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**FIGURE 2852**

CTGTGTAGGGCATGGACACAGGGAGCTCATGGCAGGGCTGACACAGGGTGTGGTGGGCACAGGGACAGGAGGCAC  
GGGAGGCTTCCCGGGATGTCTGGGAAGTGTTCAGGCCAAGGCTGGGGAGGCTGGCCCAGGGCAGGTGACGGACA  
GAGGCCTGGACTGGGGTAGCACCCATGAGAGGGGAGAAGTCCGGGGCAGTCGGCGGGTGCCGAGGGAGCATCCCG  
AGGGCCCCGTCTTCGGACGAGGAGTGCTTCTTTGACCTGTTGACCAAGTTCAGAGCAGCCGCATGGACGACCAG  
CGTTGTCCCTGGACGATGGCCAGGCCGGGGCTGCCGAGGCCACGGCCGCCCCACCCTGGAGGACAGGATCGCC  
CAGCCCTCGATGACGGCCTCGCCCCAGACCGAGGAATTCTTCGACCTCATCGCCAGCTCCCAGAGCCGCCGGCTG  
GACGACCAGCGGGCCAGCGTGGGCAGCCTGCCGGGGTGCGAATACCCACAGCAATGCAGGGCACCTCCGAGGC  
CACGGCGAGCCCCAGGAGCCGGGGACGACTTCTTCAACATGCTCATCAAGTACCAGTCTCCAGGATCGATGAC  
CAGCGCTGCCACCACCTGACGTACTGCCCCGGGGCCCTACCATGCCGGACGAGGACTTCTTCAGCCTCATTGAG  
AGGGTGAGGCTAAGCGCATGGACGAGCAGCGGGTGGACCTCGCCGGGGGCCCGGAGCAGGGGGCAGGCGGGCCG  
CCCCAGCCCCAGCAGCAGTGCCAGCCTGGTGCGAGCTAAGGCCCTGTGCCACCGCCAGGCCACCCCTGCCCCCA  
CTCTGGACGCCGGTCTCAGAGTCACAGCCACGTCTCCCGAGGCCATTGCCGAGGACAGGCACTGGGCATGCAG  
CCCCACGGCCTCCCGACCCAGGGCGACAGGCTCAGGCCAAGCTGCCCGTGGTGGGAGGGCGTGCTTCCATCCCG  
GGCTGGCCCCCATGGCCCTCAGCTTCTCCCTTCTGCCCTGCCGAGGCCGACGGGGCCTTCGGCATGTGCGC  
CCCCGACCTGGTGCTGTGACACTCCCGCATCCTCTCCCCAAGCCCTTCCCGTCTGCCCTGCCCTGCCAAATGTG  
AAACCCCTGCTGTCTCCCCCACCCTCCCCAAAGGTGTCTCTGAGCCGCCTCTTGGGGCCACCAAGGACAGGGCCAT  
GTTCTGTCCCCCAGAGCTGGTCTTGGGATGGCCGTGTGACAGGCATGCTCCACCCCTCCAGCTTCGTCTCTGGG  
CAGGGCTCCCTCCAAGCCTGTCTCCCCACTCCCCGGCCAGAGGTGAGCAACCACAGAAGGCCCCCAGACCACGC  
ATGGCAGACCAGGCTGCAGTGGCAGCCCTGAGGTGCCCCCGCCGAGTCCCAGGGCCCTGCAGGGGCCTCGACAG  
GAGCCGGGCTATCTCTAAAGCAGAGGGAATGGCTGGGCATGAACTTCGACATTCCAAAACCCCAAGCCAGGAAA  
AAGGGCAGGGCCTGGTCTAGGGATGCTTACTGGCAGCAAGAGCAGTGCCCAGTCAGGGTGGGAGGTAGCACCAG  
GCTCTGTGACCTCACCCTAAGTGGGGGGTGGTCACTGGAAGCTGGGGAGGCTCACTCAGCTCAACCTGACAG  
CCCCCATATGAGAACCCCCCTCTCCACCAGCTGGGGGAGATGACATCACTGCTCTCTCCATGGGGAGGGGGC  
TCACAGGGCACCAAGTTCCGGATCCTAGGACTGGCAGGACCTGCTGGAGCCTGAGATGGGCCCCAGGGGCCTGAG  
GTTGCCTCCTCTGTCCAGACCCAGCCTTGGCACCTCCCAAGACTGCCAAGGGCCCTACCATGGCCCCACAGCCC  
CCAGGGCTGGCAGTTCCATCTAGGAGGGTGCCTCTAGGCCCCACTCTCAGGCTAGGATGGAGAGGCAGATCTGGG  
CCTGGTGAGGTGACCTGCTTCTGGAGGGGCAGGGCCGACCCGAGAGCAGGGACAGGTGCCCGAACACAGGGTCT  
CCAGGACGTAGCGCCCCCCCCGCATACTTGAATGTATGTGCGTATTTATTGCTCAGTCTGTGCCATGTTGTCAAT  
GGGTCTTTCCAACCCAAGAGGTACATTTGTTTTCTGTTTTCTGAAAAATAAAGTCGGCCAAGTGAG

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**FIGURE 2853**

MALSFLLPSAPAAGRTGPSACRPRPGAVRLPHPLPQALPVLPCPAK CETLLSPPPSPKVSLSRLLGPPRTGPCSV  
PELVLGWPCDRHAPPLQLRPGAGLPPSLSPHSPARGQQPQKAPQTTHGRPGCSGSPEVPPAESQGPAGASTGAGP  
ISKAEGMAGHELHRHSKTPSQEKGQGLVLGMLTGSKSSAQSGWEVAPGSVILTQVGGWSVEAGEASLSSTLQTPHM  
RTPLLPPAGGDDITALSMGRGLTGHQVRDPRGTGTCWSLRWAPGA

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**FIGURE 2854**

CTCGTGGACACCTGCCACCGGGCCATGAGGACCACCTTCCTCCACATCTCCAAGACCCCCAGGAGAACGGGGCC  
ACTGCGGGGTCTGGCGTGCAGCCGGCCAGTAGCCCAGACCACGGCAGGGCATGACCTGGGGAGGGCAGGTGGAA  
GCCGATGGCTGGAGGATGGGCAGAGGGGACTCGCGCCACGGCACCTCTGGGAGCTGGGATGATAAAGATGAGGC  
TTGCGGCTGTGGCCCGCTGGTGGGCTGAGCCACAAGGCCCCGATGGCCCAGGAGCAGATGGGAGGACCCCGAGG  
CCAGACGCACACTGTCCGAGCCCTCTGCTCAGCCGCCTGGGACCCACCAGGGTGCAGCTGGGCTCCAGGGTCCAG  
CCCACAAGCTGCATCAGGCTCTCTGGGAGAGGAGGGGCCTGGAGGGCCAGGAGTCCCAGACTCACGCACCCTGGG  
CCACAGGGAGCCGGGAATCGGGGCCCTGCTGCTCCTGCTGGCCTGGAAGACTCTGTGGGGTCAGCACTGTACTCCG  
TTGCTGTTTTTTTATAAACACACTCTTGGAAGTGGCTGGGGAGCTGTGGTCACTCACAGGGCGGGCAGGTGACCA  
GGGCGGTGGAGGCGACGCTGTGTCTTCCCAGCTGCCCTGCCTAGAGGCCAGGGTGCAGGCACCGCCACCCACCC  
GTGTTCCCTATCCAGGAGTGGACCCACATCACCT

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FIGURE 2855

CGCGGGGAGAAGCGGGAGCGGGAGCGGGAGCGAGCTGGCGGCGCCGTCGGGCGCCGGGCGGGCCATGGAGCTG  
TGGCCGTGTCTGGCCGCGGCGCTGCTGTTGCTGCTGCTGCTGGTGCAGCTGAGCCGCGCGGCGCGAGTTCTACGCC  
AAGGTCGCCCTGTACTGCGGCTGTGCTTCACGGTGTCCGCGTGGCCTCGCTCGTCTGCTGCTGCGCCACGGC  
GGCCGGACGGTGGAGAACATGAGCATCATCGGCTGGTTCGTGCGAAGCTTCAAGTACTTTTACGGGCTCCGCTTC  
GAGGTGCGGGACCCGCGCAGGCTGCAGGAGGCCCGTCCCTGTGTATCGTCTCCAACCACCAGAGCATCCTGGAC  
ATGATGGGCCTCATGAGGTCCTTCCGGAGCGCTGCGTGCAGATCGCCAAGCGGGAGCTGCTCTTCTGGGGCCC  
GTGGGCCTCATCATGTACCTCGGGGGCGTCTTCTTCATCAACGGGAGCGCTCTAGCACTGCCATGACAGTGATG  
GCCGACCTGGGCGAGCGCATGGTCAGGGAGAACCTCAAAGTGTGGATCTATCCCGAGGGTACTCGCAACGACAAT  
GGGGACCTGCTGCCTTTTAAGAAGGGCGCCTTCTACCTGGCAGTCCAGGCACAGGTGCCCATCGTCCCCGTGGTG  
TACTCTTCCTTCTCCTCCTTCTACAACACCAAGAAGAAGTTCTTCACTTCAGGAACAGTCACAGTGCAGGTGCTG  
GAAGCCATCCCCACCAGCGGCCTCACTGCGGCGGACGTCCCTGCGCTCGTGGACACCTGCCACCGGGCCATGAGG  
ACCACCTTCCTCCACATCTCCAAGACCCCCCAGGAGAACGGGGCCACTGCGGGGTCTGGCGTGCAGCCGGCCCAG  
TAGCCCAGACCACGGCAGGGCATGACCTGGGGAGGGCAGGTGGAAGCCGATGGCTGGAGGATGGGCAGAGGGGAC  
TCCTCCCGGCTTCCAAATACCACTCTGTCCGGCTCCCCAGCTCTCACTCAGCCCGGAAGCAGGAAGCCCCCTC  
TGTCAGTGGCCTCAGACACAGGCCCTGGTGTCCCTGCAGGGGGCTCAGCTGGACCCTCCCCGGGCTCGAGGGC  
AGGACTCGCGCCACGGCACCTCTGGGAGCTGGGATGATAAAGATGAGGCTTGCGGCTGTGGCCCGCTGGTGGG  
CTGAGCCACAAGGCCCCGATGGCCAGGAGCAGATGGGAGGACCCCGAGGCCAGACGCACACTGTCCGAGCCCT  
CTGCTCAGCCGCTGGGACCCACCAGGGTGCAGCTGGGCTCCAGGGTCCAGCCCACAAGCTGCATCAGGCTCTCT  
GGGAGAGGAGGGGCTGGAGGGCCAGGAGTCCAGACTCACGCACCCTGGGCCACAGGGAGCCGGGAATCGGGC  
CTGCTGCTCCTGCTGGCCTGGAAGACTCTGTGGGGTCAGCACTGTACTCCGTGCTGTTTTTTATAAACACACT  
CTTGAAGTGG



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**FIGURE 2856**

MELWPCLAAALLLLLLVQLSRAAEFYAKVALYCALCFTVSAVASLVCLLRHGGRTVENMSIIGWFVRSFKYFYG  
LRFEVRDPRLQEARPCVIVSNHQSILDMMGLMEVLPERCVQIAKRELLFLGPVGLIMYLGGVFFINRQRSSTAM  
TVMADLGERMVRENKQVWIYPEGTRNDNGDLLPFKKGAFYLAVQAQVPVVPVYSSFSFYNTKKKFFTSGTIVTV  
QVLEAIPTSGLTAADVPAVDTCHRAMRTTFLHISKTPQENGATAGSGVQPAQ

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**FIGURE 2857**

GGCGCCTGGCGCACCTGGTGCTCTTCTGCCCTTCTCCAAGCGCCTGCAGGGCCGGCTCCCAGGCCTCAGGGTCC  
GCTGCATCTTCTGGCCTGGCTGGGCGTCTTTGCAGGCAGCTGGCTGGTGTACGTGCACTACTCGTCTACTCGG  
AGCGCTGTGCGGGCCATGTCTGCCAGGTGGTCATTTGTGACCAGTACCGCAAGGGGATCATCTCGGGCTCCGTCT  
GCCAGGACCTGTGTGAGCTGCATATGGTGGAGTGGAGGACCTGCCTCTCGGTGGCCCCGGGCCAGCAGGTGTACA  
GCGGGCTCTGGCGGGACAAGGATGTAACCATCAAGTGTGGCATTGAGGAGACCTCGACTCCAAGGCCCGGTGCG  
ATGCGGGCCCCGGCGGGAGCTGGTACTGTTTGACAAGCCACCGGGGCACCTCCATCAAGGAATTCCGGGAGA  
TGACCCTCAGCTTCTCAAGGCGAACCTGGGAGACCTGCCTTCCCTGCCGGCGCTGGTTGGCCAGGTCTGTCTCA  
TGGCTGACTTCAACAAGGACAACCGGGTGTCCCTGGCGGAAGCCAAGTCCGTGTGGGCCCTGCTGCAGCGTAACG  
AGTTCTCTGCTGCTGCTGTCCCTGCAGGAGAAGGAGCACGCCTCCAGACTGCTGGGCTACTGTGGGGACCTCTACC  
TCACCGAGGGCGTGCCGCATGGCGCCTGGCACGCGGCCGCCCTTCCACCCCTGTTGCGCCACTGCTGCCGCTG  
CCCTGCAGGGTGCTCTCCAGCAGTGGCTGGGGCCTGCGTGGCCTTGGCGGGCCAAGATCGCCATCGGCCTGCTGG  
AGTTCGTGGAGGAGCTCTTCCACGGCTCTTACGGGACTTTCTACATGTGTGAGACCACACTGGCCAACGTGGGCT  
ACACAGCCACCTACGACTTCAAGATGGCCGACCTGCAGCAGGTGGCACCCGAGGCCACCGTGCGCCGCTTCTG  
AGGGCCGCGCTGCGAGCACAGCACCGACTGCACCTACGGGCGCGACTGCAGGGCCCCGTGTGACAGGCTCATGA  
GGCAGTGCAAGGGCGACCTCATCCAGCCCAACCTGGCCAAGGTGTGCGCACTGCTACGGGGCTACCTGCTGCCTG  
GCGCGCCCGCGACCTCCGCGAGGAGCTGGGCACACAGCTGCGCACCTGTACCACGCTGAGCGGGCTGGCCAGCC  
AGGTGGAGGGCCATCACTCGCTGGTGTCTAGCCACCTCAAGACTCTGCTCTGGAAGAAGATCTCCAACACCAAGT  
ACTCTTGATGGGGCAGTGAGGGGCCTGGCCACCTTCTGAGCTGGCCAGGTGCCAGGGTCCAACCCTCCCTCA  
AGGAATCCTGTGAGAAGATGTGAAATGCAACTGTGTGCAAAATCACTCCCCTACCGTCAGGGCTCTGGATTCCA  
GCACCACAGACATGAGACCCAGCTCGGAGCAAAGGCGGACATGGACATCCCGGCAGGAGAGTCTCCAAGGGG  
TTTGTTACTCTGAAGAACGTAATGTCAATAAACAGCTTTTATGTAATGCCCAGGGCTG

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**FIGURE 2858**

MVEWRTCLSVAPGQQVYSGLWRDKDVTIKCGIETLDSKARSDAAPRRELVLFDKPTRGTSIKEFREMTLSFLKA  
NLGDLPSLPALVGQVLLMADFNKDNRVSLAEAKSVWALLQRNEFLLLLSLQEKHASRLGCGDLYLTEGVPHG  
AWHAAALPPLLRPLLPALQGALQQWLGPAPWPWAKIAIGLLEFVEELFHGSYGTFFYMCETTLANVGYTATYDFK  
MADLQQVAPEATVRRFLQGRRCHESTDCTYGRDCRAPCDRLMRQCKGDLIQPNLAKVCALLRGYLLPGAPADLRE  
ELGTQLRTCTTSLGLASQVEAHHSVLVSHLKTLLWKKISNTKYS

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**FIGURE 2859**

CTCTGCGTGCGCCGGAGGCTGCCGTGGCGGGTGGGCCGCTGACTTCTCCTCCCGGCCAGTTCTCGAGCGCCTCA  
CCGGGCTCGCCCTGCGAGCCTCGCTCTCGCTGGCGCTGCGCGGCCCTAGGGGACTGGGCTGCTGGCCTCCGGGTGC  
GGGGTGGGGGAGGCTCCGACCTGGGGCGTCTGGCCGCGCGAGCCGCGGGATGGGGGCCCCGGGCCGCGGAGGAG  
GCGCCGCTGGTGTGTCCCTTGGTGGAGAGGGCGCTGCCGGCCCTGCGCGGTTCCAGCCAGGAAGCTTCGGGAAG  
CCTGGACGTCTGCTCACTGGAGATGACACGTGCGTGGGGTGTGGCATTCTTGTTATTTAACACGGGAAGGAGGT  
GACTTCGCCTGTGATGGACTTCCAGTGTGAGCACTGGCCAGAGTGACCAGGCTGACCAGCACCAGCCCTGATCCA  
GATGCAGAGGCCAGGATGTGGGCCAGCCCTGTGCCAGGAGGCTGGCTGGAATAAAGGTACAGATAGAGGCCTCA  
CCCCCTCTGGGACCACTGGCACTCAGGGTGTTCAGCCCTCAGAGCCACCTGCCCCCAGGGCCACAGCTGCATC  
TCCTGCCCTGCTGTCTATTACAGGGATGGGCAGGCTGGCATGGGGGAGCCGCTGCCCCTGCTGGGTGTGTGCTGT  
GTATTCCTGCCGGCCAGGGGCCACTGCCAGGACCACGCCTCCCTTTTCATATCCCGATTCTTAAGTTCTGCTATT  
GTGGTATTCTGGTGGAGAAAAAGAACC GCGTGGCTGTTTTGAACTGCCTGGAACCTAAGACCCTGAATTCTTT  
TCCCCCAAGGGGAAATCTATATGGAACATTTATTTTAAATACAGGATGAAGTGAATTAAGATTAA  
TGCACATTCTTTAAGGATAATATTTCTGTGTTGGCAAAATTTGAGAGTAAATGGTCTTGAATGGAATGGATTG  
TCTTGACTCACACATTGCGGAGCAGAGCCCGCCCTGAAGAAAGGTGTTGCTGTGGTGGGATCTTCCACGAGGGT  
CCTTGCTGTTCTCCTAGGGGATGTTGCTGGGTGCCCTGGGCTACTGGGGAGAGCGTACGGGGCTGGAGAAGAT  
GGCCATTCTGGGCTGTTTCTAGGGAATGAGTTGTACATCTCATGGCTGGATTTTGTAATCAGTTTTTAA  
TACCGCATATATCTGTTTTCTTACTGG

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**FIGURE 2860**

GGCACGAGGCCGAGCCCTGCCAACCATGGTGAACTTGGGTCTGTCCCGGGTGGACGACGCCGTGGCTGCCAAGCA  
CCCCGGACTCGGGGAGTATGCCGCATGCCAGTCACACGCCCTTCATGAAGGGCGTTTTACCTTCGTACAGGCAC  
CGGCATGGCCTTTGGCTTGCAGATGTTCAATCAGAGGAAGTTCCATAACCCTTTGCAGTGGAGCCTCCTAGTGGC  
CGTGGTTGCAGGCTCTGTGGTCAGCTACGGGGTGACGAGAGTGGAGTCGGAGAAATGCAACAACCTCTGGCTCTT  
CCTGGAGACCGGGCAGCTCCCCAAAGACAGGAGCACAGATCAGAGAAGCTTAGGAGAGCTCCAGCAGGGGCACAGA  
GGATTGGGGGCAGGAGGAGTCTGGAACACAGCCTTCATGCCCCCTGACCCAGCCCGACCCTCCCCACACCCTAG  
GGTACCCAGTCGTATCCTCTGTCCGCATGTGTGGCCAGGCCTGACAAACACCTGCAGATGGCTGCTGCCCCAAC  
CTGGGACCTGCCAGGAGGTTGGAGCAGAAAGGGCTCTCCCTGGGGTGGTGTCTCTCTAGGGTATTGGGATG  
CATGTTCTGCACTGCCAGCAGAGAGGGTGTGTCTGGGGGCCACCACCTATGGGACACGGGGTCGAAGGGGCCTGT  
ACACTCTGTCAATTCCTTTCTAGCCCTGCATCTCCAACAAGTCCAAGGTGACAGCTGGTGCTAGGGGCGTGGGG  
TTAATAAATGGCTTATCCTTCTCTCAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2861**

MVNLGLSRVDDAVAAKHPGLGEYAAQCQSHAFMKGVTFVTGTGMAFGLQMFIRQKFPYPLQWSLLVAVVAGSVVS  
YGVTRVESEKCNNLWLFLETGQLPKDRSTDQRS

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**FIGURE 2862**

GGGGACTCCGGGAGGAGGAACATGGCCGTGGCGGACCTCGCTCTCATTCTGATGTGGACATCGACTCCGACGGC  
GTCTTCAAGTATGTGCTGATCCGAGTCCACTCGGCTCCCCGCTCCGGGCTCCGGCTGCAGAGAGCAAGGAGATCG  
TGCGCGGCTACAAGTGGGCTGAGTACCATGCGGACATCTACGACAAAGTGTGCGGCGACATGCAGAAGCAAGGCT  
GCGACTGTGAGTGTCTGGGCGGCGGGCGCATCTCCACCAGAGTCAGGACAAGAAGATTACGTGTACGGCTATT  
CCATGGCCTATGGTCTTGGCCAGCAGCCATTTCAACTGAGAAAATCAAAGCCAAGTACCCCGACTACGAGGTCA  
CCTGGGCTAACGACGGCTACTGAGCACTCCCAGCCCGGGGCTGCTGCCTCCAGCAGCCACTTCAGAGCCCCGCC  
TTTGCCTGCACTCCTCTTGCAGGGCTGGCCCTGCCTGCTCCTGCGGCAGCCTCTGGTGACGTGCTGTCCACCAGG  
CCTTGGAGACAGGCTAGCCTGGCCACAGAATTAAACGTGTTGCCACACCTGCCGGCTCTTTAAAAAAAAAAAAA  
AAAAAAAAAAAAAA

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**FIGURE 2863**

MAVADLALIPDVDIDSDGVFKYVLIRVHSAPRSGLRLQRARRSCAATSGLSTMRTSTTKCRATCRSKAATVSVWA  
AGASPTRVTRRFTCTAIPWPMVLPSTPFQLRKSKPSTPTTRSPGLTTATEHSQPGACCLQQPLQSPAFACPLA  
GLALPAPAAASGDVLSTRPWRQASLATELNVLPHLPAS



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**FIGURE 2864**

CCGGACGGACGCTCGTCTTCGCCCCGCCATGCCCGAGAGCGACTGGGACACGGTGACGGTGCTGCGCAAGAAGGGC  
CCTACGGCCGCCCAGGCCAAATCCAAGCAGGCTATCTTAGCGGCACAGAGACGAGGAGAAGATGTGGAGACTTCC  
AAGAAATGGGCTGCTGGCCAGAACAACAACATTCTATTACCAAGAACACGGCCAAGCTGGACCGGGAGACAGAG  
GAGCTGCACCATGACAGGGTGACCCCTGGAGGTGGGCAAGGTGATCCAGCAAGGTCGGCAGAGCAAGGGGCTTACG  
CAGAAGGACCTGGCCACGAAAATCAATGAGAAGCCACAGGTGATCGCGGACTATGAGAGCGGACGGGGCCATACCC  
AATAACCAGGTGCTTGGCAAAATCGAGCGGGCCATTGGCCTCAAGCTCCGGGGAAAGGACATTGGAAAGCCCATC  
GAGAAGGGGCCTAGGGCGAAATGAACACAAAGCCTCGAAATCAGTGCGCTCCAGCTGATCTCGTTCCGCCGGTTC  
CCCTTGCGCGCCAGTTCGGTTCCTCACGGGCCGAACGGAACAAGGGGTCCAGCTTGCGGGGGACCCCTCCCCAG  
CCCATTCTGCTGTCAAACAAACAAAACCTTGCAAAGCG

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**FIGURE 2865**

MAESDWDTVTVLRKKGPTAAQAKSKQAILAAQRRGEDVETSKKWAAGQNKQHSITKNTAKLDRETEELHHDRTVL  
EVGKVIQQGRQSKGLTQKDLATKINEKPQVIADYESGRAIPNNQVLGKIERAIGLKLRGKDIGKPIEKGPRAK

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**FIGURE 2866**

ACGGCAACGGGGGCCTCTACTGCGCGCTGGAGGACCACAAGATCCTGGAGGACATGGAGCGCCGGGGAGTGGAGT  
TTGTGCACGTGTACTGTGTGGACAACATCCTGGTGC GGCTGGCGGACCCTGTCTTCATCGGCTTCTGTGTGTGC  
AGGGCGCAGACTGTGGCGCCAAGGTGGTGGAAAAGGCATACCCCGAGGAGCCCGTGGGCGTGGTGTGCCAGGTGG  
ACGGTGTCCCCCAGGTGGTGGAGTACAGCGAGATCAGTCTGAGACCGCACAGCTACGTGCCTCCGACGGGAGCC  
TGCTGTACAATGCAGGCAACATCTGCAACCACTTCTTCACCCGAGGCTTCCTTAAGGCGGTACCAGGGAGTTTG  
AGCCTTTGCTGAAGCCACACGTGGCTGTGAAGAAGGTCCCGTATGTGGATGAGGAGGGGAATCTGGTAAAGCCGC  
TAAACCGAACGGGATAAAGATGGAGAAGTTTGTGTTTGTATGTGTTCCGGTTTGCTAAGAACTTTGCTGCCTTGG  
AAGTGTGCGGGAGGAGGAATTTTCCCACTGAAGAACGCAGAGCCAGCCGACAGGGACAGTCCCCGCACCGCTC  
GCCAGGCCCTGCTCACCAGCACTACCGGTGGGCTCTGCGGGCCGGGGCCCGCTTCCTGGATGCCATGGGGCCT  
GGCTCCAGAGCTGCCCAGCTTGCCCCAAATGGAGACCTCCGGCCATCTGTGAGATATCGCCCTTGGTGTCTT  
ACTCTGGAGAGGGTTTAGAAGTGTACCTGCAAGGCCGGGAGTTCCAGTCCCCGCTCATCTGGATGAAGACCAGG  
CCAGGGAGCCGAGCTGCAGGAGTCCTGACCCCCGCCAGACTGTCCCCAGACTCCCCGAGACCTGCCAGCCCCGG  
CATCTGGAAGTCCCGACTCCCCCAGACCTGCCAGCCCCGGCGTCTTGAGCTGGGGGCTACAGCCCAGCCTGA  
GCTCTGGGTGGGAAAGCAGCCTGCCCCATGCTTCCAGCTGCAGAACACAGAAAGAAATGCTGGTAGACTCCA  
CGAGGGCAGGGCCTCTCTGTGCGCTCTGGACACAAGTGGCGACAGCCTGCTGGGGGCTCTGTGGCTCCATTCT  
GGCTGTGGGTCTAGTCAAGAGGCAGAGGGACTTGGGACCTGGGAGAATGGGGCTGAGAGGAGGCTTCGGGTGG  
GGCCCAAGGGAGGTGTGGTGTCTATCTGGGGAGAACAGGAGGGCATGTCCCTTTGGGAGCCCGCTTGTGGATCCA  
CCACACCCACCGAGCACTAGAAGCTGCATAAGCTACACAGGATGTGCTTCTGCAGCCTACAGATGCAGAACCAG  
AATGAGGGGGACAAATCCACCCACTCGAGGGCTGCCCCCTCTTCTTAGCAGACGAACCAGTAATGGGGGCAAGG  
CTGGGGCATCCCAGCCACACACCCTGGATGCCAGCAAGGCCACAGAAAGAGCCTGATGTCCATGATCCAGGTG  
GCTCTGAGAAGCTTGGCCTGGACACCTGAGCCTGCGGCCGTA CTCTGCCTTCTCCCCATCTATCCCCAAGGCC  
TCTGCCTCTCAGCCTCTTCCATGGTTCGGTTTAGGCTGCTGAGTTTTCTGTGCTTCCCCAAGAACCAGTGGGATCA  
ATGCCGGCGGCCTCTGTGATGGTTGCTGACTAATCCGGGATTTTCATGAGTCAGAGGCACCACCCCTCACCACAGC  
TGCCCTGCTGCTTCTGACGATCTTGGTGTCTAGGCTGCCTGGCTCTCCGAGTGAGGACGCAGCCTCCATATTTGG  
TGCACTCAGGCATGGCTGGGACAAGCCAGCTGCCCCAGGGTTCTTCCCTGGTGATTCTCGCCTGCTTTCTCATC  
TCAGGGGAGGCAGTGGCACCTCCCTCTCCCTGCTGACATGAAGAGAGCTATGATATGCCACTGCTGCCAACTCAT  
CCTCTGCCCCACCTCGAAACCCACAGTCCCCAGTGGAGGGCCACTACTCATCCCCATTGGTTTCCCAGGGGAGG  
GGTGTGTCTGGAAGGGCAGGTTTCAGATGCAGCCTTCCAGATTTAGAGGCACTGGGAGGACAGTGGCTGAGTGGA  
GGCGCCACAGCTGGGCAGGCAGGCTCAGGCCACACCTTGTGATTTTTGAAACCAAGCCGAGAGATGAT  
GTTTACTTCTCTCTCCCTGGCTCTGCCCTTCTTACTGCAAACCATGCTGTGCCTTAGGGCCCTTCTCATAGCTGT  
TCCTCATGGCCATGACTGGAACAGGGATGCAACCTCTTTCTACACAAGCACAGTTAGTTGGGTGAAGTCTTTTTT  
TTTGTGTTGTTTGTAGACGGAGTTTCACTCTTGTGCCCAGGCTGGAGTGAAGTGGCGTGACCTTGGCTCACTGCAA  
CCTCCAGGCCAGCCTCAGCCTCCCTAGTAGCTGGGACTACAGGCACCCACTACCACGCCTGGCTAATTCTTTGTA  
TTTTTAGTAGAGATGGGGTTTGACCGTGTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCACCCACCTC  
GGCCTCCCAAAGTGCTGGGATTATAGGTGTGAGCCACCGCGCCGGGCGGTTGCTGGCATCTTAATGTTCTGTAG  
GTGGAATATTTCCAATAAACACAAGGTGCCGTAATTGACTGCT

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**FIGURE 2867**

MERRGVEFVHVYCVDNILVRLADPVFIGFCVLQGADCGAKVVEKAYPEEPVGVVCQVDGVPQVVEYSEISPETAQ  
LRASDGSLLYNAGNICNHFFTRGFLKAVTREFEPLLKPHVAVKKVPYVDEEGLVKPLKPNGIKMEKFVFDVFRF  
AKNFAALEVLREEEFSPKNAEPADRDSPRTARQALLTQHYRWALRAGARFLDAHGAWLPELPSLPPNGDPPAIC  
EISPLVSYSGEGLEVYLQGREFQSPLILDEDQAREPQLQES

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**FIGURE 2868**

TGCAGGAGAATGGCTACTCATCACACGCTGTGGATGGGACTGGCCCTGCTGGGGGTGCTGGGCGACCTGCAGGCA  
GCACCGGAGGCCCAGGTCTCCGTGCAGCCCAACTTCCAGCAGGACAAGTTCCTGGGGCGCTGGTTCAGCGCGGGC  
CTCGCTCCAACTCGAGCTGGCTCCGGGAGAAGAAGGCGGCGTTGTCCATGTGCAAGTCTGTGGTGGCCCCCTGCC  
ACGGATGGTGGCCTCAACCTGACCTCCACCTTCTCAGGAAAAACCAAGTGTGAGACCCGAACCATGCTGCTGCAG  
CCCGCGGGGTCCCTCGGCTCCTACAGCTACCGGAGTCCCCACTGGGGCAGCACCTACTCCGTGTCAGTGGTGGAG  
ACCGACTACGACCAGTACGCGCTGCTGTACAGCCAGGGCAGCAAGGGCCCTGGCGAGGACTTCCGCATGGCCACC  
CTCTACAGCCGAACCCAGACCCCCAGGGCTGAGTTAAAGGAGAAATTCACCGCCTTCTGCAAGGCCCAGGGCTTC  
ACAGAGGATACCATTGTCTTCTGCCCCAAACCGATAAGTGCATGACGGAACAATAGACTCCCCAGGGCTGAAG  
CTGGGATCCCGGCCAGCCAGGTGACCCCCACGCTCTGGATGTCTCTGCTCTGTTCCCTCCCCGAGCCCTGCCCC  
GGCTCCCCGCCAAAGCACCCCTGCCCACTCGGGCTTCATCCTGCACAATAAACTCCGGAAGCAAGTCAGTTAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2869**

MATHHTLWMGLALLGVLGDLQAAPAEQVSVPNFQQDKFLGRWFSAGLASNSSWLREKKAALSMCKSVVAPATDG  
GLNLSTFLRKNQCETRTMLLPAGSLGSYSYRSPHWGSTYSVSVVETDQYALLYSQSGKPGEDFRMATLYS  
RTQTPRAELKEKFTAFCKAQGTEDTIVFLPQTDKCMTEQ

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**FIGURE 2870**

GCGCAGGCGCAGTCTCCGCGTGCGCGCCTGCGCGGCCTCCATCCCGGATCCTTGCTGCAGCGTCAGCGCCGCC  
GCCCCGTGCCTTTCCCTCTTCCTCCTCCTCCTTGGCATCCGCCTCTTCTTCCTCCTGCGTCCTCCCCCGCTGCC  
TCCGCTGCTCCCGACGCGGAGCCCGGAGCCCGCGCCGAGCCCTGGCCTCGCGGTGCCATGCTGCCCCGGCGGGCG  
GCGCTGAAGGATGGCGACGCCGCTGCCTCCGCCCTCCCGCGGCACCTGCGGCTGCTGCGGCTGCTGCTCTCCGG  
CCTCGTCTCGGCGCCGCCCTGCGTGGAGCCCGCGCGGCCACCCGGATGTAGCCGCTGTCCCGGGAGCCTGGA  
CTGTGCCCTGAAGAGGCGGGCAAGGTGTCTCCTGGTGCACATGCCTGTGGGCCCTGCCTTCAGCCCTTCCAGGA  
GGACCAGCAAGGGCTCTGTGTGCCCAGGATGCGCCGGCCTCCAGGCGGGGGCCGGCCCCAGCCAGACTGGAAGA  
TGAGATTGACTTCCTGGCCAGGAGCTTGCCCGGAAGGAGTCTGGACACTCAACTCCGCCCCCTACCCAAGGACCG  
ACAGCGGCTCCCGGAGCCTGCCACCCTGGGCTTCTCGGCACGGGGGCAGGGGCTGGAGCTGGGCTCCCTCCAC  
TCCAGGAACCCCCACGCCCACGCCCCACACCTCCATGGGCTCCCTGTGTATCCGACCCGGTGCACATGTCGCC  
CCTGGAGCCCCGGGGAGGGCAAGGCGACGGCCTCGCCCTTGTGCTGATCCTGGCGTTCTGTGTGGCCGGTGCAGC  
CGCCCTCTCCGTAGCCTCCCTCTGCTGGTGCAGGCTGCATCGTGAGATCCGCCTGACTCAGAAGGCCGACTACGC  
CACTGCGAAGGCCCCCTGGCTCACCTGCAGCTCCCGGATCTCGCCTGGGGACCAACGGCTGGCACAGAGCGCGGA  
GATGTACCACTACCAGCACCACGGCAACAGATGCTGTGCCTGGAGCGG

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**FIGURE 2871**

CGGGGCTCGTGGCGTCGGGCCTGGCGGGCTCCCCGTGGGCGGGGGCGGCGGTCCGAGCGGCTGCGGCAGCGGAA  
GCGGGTCCGGGTGCGCGAGGGCGGGGGCGGCGCAGCGGGCGGAGGCGGCCGTGGGCCGCTGGGCAGAATGTCAC  
GATGGACGAGGGCGGCACGCCCTGCTCCCCGACAGCCTGGTCTACCAGATCTTCTGAGCCTGGGCCCGGCCGA  
CGTGCTGGCCGCCGGGCTGGTGTGCGGCCAATGGCAGGCCGTGTCGCGGGACGAGTTCTGTGGAGGGAGCAGTT  
CTACCGCTACTACCAGGTGGCCCGCGACGTGCCCCGACACCCAGCGGCCATGTCCTGGTACGAGGAGTTCCAGCG  
GCTGTATGACACGGTGCCCTGCGTGGAGGTGCAGACGCTGCGGGAACACACAGACCAGGTCTGCACCTCAGCTT  
CTCCCATTCGGGTACCAGTTCGCGTCTGCTCCAAGGACTGCACTGTGAAGATCTGGAGCAACGACCTGACCAT  
CTCGCTGCTGCACAGCGCGGACATGCGGCCCTACAACCTGGAGCTACACCCAGTTCTCCAGTTCAACAAGGACGA  
CTCGCTACTGCTGGCCTCGGGGGTGTTCCTGGGGCGGCACAACCTCATCCGGCGAGATTGCTGTCATCAGCCT  
AGACTCCTTCGCGCTGCTGTCCCGCGTGCAGAACAGCCCTATGACGTGTTGGCTGTTGGCTCACCGAGACCAG  
CCTCATCTCGGGGAACCTGCACCGCATCGGAGATATCACCTCCTGCTCGGTGCTGTGGCTCAACAATGCCTTCCA  
GGATGTGGAGTCAGAGAACGTCAACGTGGTGAAGCGGCTGTTCAAGATCCAGAACCTCAATGCCAGCACCCTCCG  
CACGGTGTGGTGGCCGACTGCAGCCGCTTCGACAGCCCTGACCTGCTGCTGGAAGCCGGTGACCCGGCCACGTC  
CCCCTGCCGCATCTTTGACCTGGGCAGCGACAACAGAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
XXTCGGTACACCCCT  
GCCGCCATGCTGCCCGCTCGGTCTTAGGAGCTTGGGGAGGCCGGGCAGGGGTCTGAGGGGCAGACAGCAAGC  
AAGTCCACAGGCAAAGCTGGGATCGTTCACTCGCCCTTGGGTACAAAGCCAGACCTGGGGCCTGTGGGATGAG  
CAGTGAACAAACGACAGGCGCGCTGGCCAGCAAGCAACCGACGGGCTGATTAGGTCTGGGGCCCCCGG  
AGCAGGCAGTGCACCGACCTCTGTGGTGTCTACAGCCCCAGAGACACCACTGAGGTAGGAAGCTGCCCTGGAG  
TGATGTCTTGGGGCATTGGACAGGGACCCTACCGTAGCCCTCCCTGCAGGCATCAAGCAGATCTGCCACACC  
AGATGACCACGGCAGGGCCCGTGTGGGTGAGGGCCGGGGCTCCGATGCCTTCTTCGACGCGCTGGACCACGTCA  
TAGACATACAGGACACATCATCGGCATGGGCCTGTGCGCCGACAACAGGTGGGCCTCTTGCCAGTGTCCAGGC  
GGGGTGGCCGCAGGCGGCCACACCTAGCACAGTGGCCCTCGCCAGGTACCTGTACGTGAACAGCCGCGCCTGG  
CCCAACGGTGCGETGGTGGCCGACCCCATGCAGCGCCACCAATCGCGGAGGAGATTGACCTGCTGGTGTTCGAC  
CTCAAGACCATGCGGGAGGTGAGCGGGCTCTGCGTGCACCGCGCCTACACGCCAACGACGAGTGCTTCTTC  
ATCTTCTGGACGTGACAGGACTTCGTGGCCAGCGGGCGGAGGACCGGCACGGCTACATCTGGGACCGCCAC  
TACAACATCTGTCTGGCCAGGCTGCGGCACGAGGATGTGGTCAACTCAGTGGTCTTCAGTCCCCAGGAGCAGGAG  
CTGCTGCTCACGGCCAGCGACGACGCCACCATCAAAGCCTGGCGCTCCCCACGCACCATGCGCGTCTCCAGGCA  
CCTCGCCACGGCCTCGCACCTTCTTCTCCTGGCTTGCCAGCCAGAGGCGCTGAGGTGTGCTGGGTGCACTGGAG  
CCACCGGGACCCCTTGAGGACATCGCCAGGCTCTGTGGCTTTTTCCCGAGCGGGAGAGGTGGAGATGCTTATAGC  
AGTTACGCCTTAGGAAGGGGACAACCAGGCCCGCCACACGCTCACACACAAACCTGCTCACGCAGCTGTGATGC  
TTGGCACGGGGTGGCCAGTGCAGATGGAGCCCAAGGCCCCCTCGGCCTCCTGGGCAACTTGGGGTACACAGGATA  
CTGGGGGTGCCGCTCCTCACTCAACCCAGGCTAGGGGTACACCTGACCCAGCTGGCCTCGGCCCGGGGCACCTT  
CGGCTGGTCTGTGGGGCCCTGACGGTGGCCAGTGGTGGCAGGGGCTGCTCCTGGCTGTGGTGTGCGCCCGG  
GGCTTGGGAGCGGCCGGTACGCTGCTGTGGGCCGAGTGTGTGCATGTCCACGCACCAACCCGTTAGGGCCCT  
GAATAACAGTTGGCAACAGC



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**FIGURE 2872**

MDEGGTPLLPSLVYQIFLSLGPADVLAAGLVCRQWQAVSRDEFLWREQFYRYQVARDVPRHPAAMSWYEEFQR  
LYDTVPCVEVQTLREHTDQVLHLSF SHSGYQFASCSKDCTVKIWSNDLTISLLHSADMRPYNWSYTQFSQFNKDD  
SLLLASGVFLGPHNSSSGEIAVISLDSFALLSRVRNKPVDVFGCWL TETSLISGNLHRIGDITSCSVLWLNNAFQ  
DVESENVNVVKRLFKIQNLNASTVRTVMVADCSRFDSPDLLLEAGDPATSPCRIFDLGSDNRXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXXXXXXGTPLPCCPPRS

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**FIGURE 2873**

GATTATTGATTAATTTGGGCACCGCGAGGGCTCGAGTCCCCCACACCACTGCCCGGCCTGCGGGGGAGCACAGA  
CAGCCCGGGCCCTCCCGGCTGCAGGTCCCGGGCTTCCCCGCGCGGTTGCCGGCTCCGCCCAGAGGAGCCGCGCC  
CGGCGGAGGGGTAAGAAAGGCAGGGTCGCGGCGTCAACGCGGCGGCGTCTCGAGTCCAGGGCCCCGCGTCTCCC  
CGACCTCCCGACGCCACCTCACGGCCTCAGGGGGACTGGGCTCCCGGATCTGACCGGCTTCAAGCTCAAGCCCTA  
CGTGAGCTACCTCGCCCCTGAGAGCGAGGAGACGCCCTGACGGCCGCGCAGCTCTTCAGCGAAGCCGTGGCGCC  
TGCCATCGAAAAGGACTTCAAGGACGGTACCTTCGACCCTGACAACCTGGAAAAGTACGGCTTCGAGCCCACACA  
GGAGGGAAAGCTCTTCCAGCTCTACCCAGGAACCTCCTGCGCTAGCTGGGCGGGGAGGGCGGCCTGCCCTCA  
TCTCATTCTATTAAACGCCTTTGCCAGCTA

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**FIGURE 2874**

CTGAGCTGTCCCTGCAGGACTCCAGTGGAAAGTGAAGAAGTGGGCACCGGGGAAAAGCTAGGATGTCCACACTC  
CTACACCATGCAGGGAACTCGGGCACAGGCCGGGCTGGGCCGGGATCAGATGGGAAGCAGAAGCTCATCATGACC  
AGAAACTGTTTCCCTACGGAGAGCACTTGGAGATGGCAATGCTGAACCTCACACTGTAGGACTCACACACGACTC  
TAACGGGATTGTAAGAATCAAGTCACTCTCATGGGAAGAATTTTATATGGGAAAGCGGCTAAAACCTTTTATTGG  
ACTGGAATGTTTGGAGATTGTTAAATTCCAAATCAGGAACCAAACTGCCCTCTAATAAGATATCAGCTGTCTA  
AGCGTGTGGGTGCCGCCTTTCTGCCAGTAGTTCTGGTTCTTAAGAAAAGCACCATAAATCAGACATGAAAATTCT  
GGCTCCAAAATAGCATTTCCTTTGTGCAAATAAAAACGTGTGTATCAAGTATGACGTTCCCCAACGTGGACAC  
ACTTGGTTCTCTAGAAAGCCAAGCCCGCTGCAGCTGCCACATCCCAGGGCTTATGGTGCAGCAGGTGCTTTTTTC  
AAGACAGGAATCAAAGTGTAGGAACACGGCAGACAGGTGACACCTGGATACCAAATGCAGGATGAGGAGTACTG  
CAGAGGTCACAGGGAAGTCACAGAACAGTAATACGCTAGCAGGGGCATGGGGCGTGAAGAACAGAAGAAGACAGT  
TTGAGAAAAGCATCTGCAAAATGCTAAAGAGCAGAGCTTACCTCATTGCCTGTCCCCATCCCATCCCAGGTCAAC  
ACCTGGCTGACCCAGGTCCCCGACCCAACAACAACCCCTCCCAAGTCCCTAACTCCCTCACTTGGACTTGAGAC  
CCTTCACAACCCAGCAGCGCTCCGCCTCCAACGTGACATCATGCTTTCTGGAAACTTCCCGTATGTCCCACTTT  
CCCACACTTGGTGCCCTGGAGCACCTTCCGGCCTCTACATGCTGTACGTTCCCTGTGATCACCTCCTCTCGGC  
CTCTGGCCAAACAGTCCCACCCATCTGTGGGTAAACAAGGGGTGTGTGTGTTCTTTTCAGCCTTGCTAAACTGT  
CTGAATCAAGGATCACAACTACAGCCTGCAGGCCAAAGCCAGCCACAGCCTGTGTTTGTAATAAAGCTTTAT  
TGGAACAAAGCCACACCCCTTAATCTACAGATGATCTGTGGCTACTTTCACACCACAACAGAGTACCATGGTTCT  
GACAGAGACTGGGGACCCGTGTCTAAATGACTTCTGACCTGGACCTTTACTGAAAATCCTCCCAATCATTCTGTT  
GACAAGAATGGTGTATTACTTTTTGCAATAAGAAACAAGTAACCTTTGCAGAATTCCACCCATCTTTCAAGGCTG  
ATCCCAGAAGTTCCTCTGCCCACGCACCTACCTGATCCTGATCACTTCCTAAACTGCAGCCCGGCCACCCGGC  
TCCAGCATCATTTGTGGAGTCTCAGCTCCATAAATCCAGAGGGCAGGTGGGGGTGTGTCCTAACTTTCCCGAGCC  
TACTGTACCGAAACAGGACAGCAGAGTAGGAAGCCTCTGTGACTTCTGCTCCCTCCCTAGCTTTTCCACCAGACC  
CTGCATGGTCCCACCTGGCTGTGTGAAGCAAGGATCAGGGAGCGTGGCTCTATGTCAGTCTCCAGAACCCTGTC  
CACCTGGCGTGGTGGCAGACATGGCTACCTGCAGCTGAGCTGCCAGTTCCTCTGAGTCTCTCAAAGACCAGGCCA  
TTTTCTTCATGTTTACCAGCTCATGTAACTGCAGAGAGAACCAAGGGAGCCTGAGAGCTGCCTGGGGAAGACA  
CCAGACGCCTGGGGTGCCAGCTGGGCTCCCACCCACCCACGCTCAAGCCAGGCTGGGGGTGGAACAGGGTGT  
GTGGTTTCTGGGAGCTGGTTCTTAGATTTGGCATCTGAAGGGTATAAAGGCCTGGGGGGTGCACATCAAATGA  
CCAAATCGATTTGAGGAGAGAGCCTTAAGGAAGTTTGTACCTTCTGTGCTGGATGCTCTTCAAGGACTGAAGAA  
TTATTTTTCATGTTTTTCTAATTCATGGCCATGGAACAAGTAAAGGCAACCCCTGGGGACTGGTTCAGCAC  
ATAAAAGATGACTTTTCTAGGACACC

GCTTACCACGGCATGGTGGACGGAGGCTCAAACATCGCAGAGGCCGACTGGGAGAGTGTCTCCAGCATCTTGCAA  
GTGGGCGGGACGATCATTGGCAGTGC GCGGTGCCAGGCCCTTCGCGACGCGGGAAGGCCGCTGAAGGCTGCTTGC  
AACCTGCTGCAGCGAGGCATCACCACTGTGTGTATCGGCGGGGACGGGAGCCTCACCGGGGCCAACCTCTTC  
CGGAAGGAGTGGAGTGGGCTGCTGGAGGAGCTGGCCAGGAACGGCCAGATCGATAAGGAGGCCGTGCAGAAGTAC  
GCCTACCTCAACGTGGTGGGCATGGTGGGCTCCATCGACAATGATTTCTGCGGCACCGACATGACCATCGGCACG  
GACTCCGCCCTGCACAGGATCATCGAGGTGCTCGACGCCATCATGACCACGGCCAGAGCCACCAGAGGACCTT  
GTTCTGGAGGTGATGGGACGACA<sup>1</sup>CTGTGGGTACCTGGCCCTGGTGAGTGCCTTGGCCTGCGGTGCGGACTGGGTG  
TTCCTTCCAGAATCTCCACCAGAGGAAGGCTGGGAGGAGCAGATGTGTGTCAAACCTCTCGGAGAACCCTGCCCCG  
AAAAAAAGGCTGAATATTATTATTGTGGCTGAAGGAGCAATTGATACCCAAAAATAAACCCATCACCTCTGAGAA  
ATCAAAGAGCTTGTGCTACGCAGCTGGGCTATGACACACGTGTGACCATCTTCGGGCACGTGCAGAGAGGAGGG  
ACCCCTTTCGGCATTTCGACAGGATCTTGGCCAGCCGCATGGGAGTGGAGGCAGTCATCGCCTTGCTAGAGGCCACC  
CCGGACACCCAGCTTGCCTGCTGTCTACTGAACGGGAACCACGCCGTGCGCTGCCGCTGATGGAGTGCCTGTCAC  
ATGACTCAGGATGTGCAGAAGGCGATGGACGAGAGGAGATTTCAGATGCGGTTTCGACTCCGAGGGAGGAGCTTT  
GCGGGCAACCTGAACACCTACAAGCGACTTGCCATCAAGCTGCCGGATGATCAGATCCCAAAGACCAATTGCAAC  
GTAGCTGTCTAACCGTGGGGGCACCCGCGCTGGGATGAACGCAGCCGTACGCTCAGCTGTGCGCGTGGGCATT  
GCCGACGGCCACAGGATGCTCGCCATCTATGATGGCTTTGACGGCTTCGCCAAGGGCCAGATCAAAGAAATCGGC  
TGGACAGATGTGCGGGGCTGGACCGGCCAAGGAGGCTCCATTCTTGGGACAAAACGCGTTCTCCCGGGGAAGTAC  
TTGGAAGAGATCGCCACACAGATGCGCACGCACAGCATCAACGCGCTGCTGATCATCGGTGGATTTCGAGGCCTAC  
CTGGGACTCCTGGAGCTGTGACCCGCCCGGGGAGAAGCACGAGGAGTTCTGTGTCCCATGGTCATGGTTCCCGCT  
ACTGTGTCCAACAATGTGCCGGGTTCCGATTTTCAGCATCGGGGCAGACACCGCCCTGAACACTATCACCGACACC  
TGCACCGCATCAAGCAGTCCGCCAGCGGAACCAAGCGCGCGTGTTCATCATCGAGACCATGGCGGGCTACTGT  
GGCTACCTGGCCAAACATGGGGGGGCTCGCGGCCGGAGCTGATGCCGCATACATTTTCGAAGAGCCCTTCGACATC  
AGGGATCTGCAGTCCAACGTGGAGCACCTGACGGAGAAAAATGAAGACCACCATCCAGAGAGGCCCTTGTGCTCAGA  
AATGAGAGCTGCAGTGAAAACTACACCACCGACTTCAATTACCAGCTGTATTAGAAGAGGGCAAAGGCGTGT  
GACTGCAGGAAGAACGTGCTGGGTACATGCAGCAGGTTGGGGCACCTCTCCATTTGATAGAACTTTTGAACC  
AAAACTCTGCCAGAGCTATGGAGTGGATCACTGCAAACTCAAGGAGGCCCGGGGCAGAGGAAAAAAATTTACC  
ACCGATGATTCCATTTGTGTGCTGGGAATAAGCAAAAGAAACGTTATTTTTCAACCTGTGGCAGAGCTGAAGAAG  
CAAA<sup>2</sup>CGGATTTTGAGCACAGGATTCCCAAGAAGACAGTGTGGCTCAAGCTACGGCCCTCATGAAAACTCTGGCC  
AAGTACAAGGCCAGCTATGACGTGTGCGACTCAGGCCAGCTGGAACATGTGCAGCCCTGGAGTGTCTGACCCAGT  
CCCGCTGCATGTGCTGACGCCACCGTGGACTGTCTGTTTTGTAACTTAAGTTATTTTTATCAGCACTTTAT  
GCACGTATTATTGACATTAATACCTAATCGGCGAGTGCCCATCTGCCCCACCTGCTCCAGTGCCTGCTGTCTGTG  
GAGTGTGTCTCATGCTTTTCAGATGTGCATATGAGCAGAAATTA

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**FIGURE 2876**

GGGTGGGGCGTGTGACCCCTTAAAGGCGCCAGAGCCCGGGTCACGGCTCAGGTTCCCGGTGCTTCGCGCGTC  
TGCCGTTGTCACAGGCCAGGGAGGTGGCACCACCAGGCGAAGCTTGCGGAGATTGTGTCGTCAGCGCGTACGGG  
CGCCAATTGGCCGGGCGATGTGGCGTGGACTGGCGCTGGCGCGAGCGATTGGCTGCGCGGCCCGGGGGCGGGGCC  
AGTGGGCGGTGCGCGCCGAGACTGTGCTCAAAGCGGGCGCCATCCGGGACCGGCGGTGTCTGTGGCCGGAGGC  
TGATCAGTGTCTAGAACAGATCAGACATTTTGAATGATGCCTGAAATAAACACTAACCACCTCGACAAGCAAC  
AGGTTCAACTCCTGGCAGAGATGTGTATCCTTATTGATGAAAATGACAATAAAATTGGAGCTGAGACCAAGAAGA  
ATTGTCACCTGAACGAGAACATTGAGAAAGGATTATTGCATCGAGCTTTTAGTGTCTTCTTATTCAACACCGAAA  
ATAAGCTTCTGCTACAGCAAAGATCAGATGCTAAGATTACCTTTCCAGGTTGTTTTACGAATACGTGTGTAGTC  
ATCCATTAAGCAATCCAGCCGAGCTTGAGGAAAGTGACGCCCTTGAGTGAGGCGAGCAGCACAGAGACGGCTGA  
AAGCTGAGCTAGGAATTCCTTGGAAGAGGTTCTCCAGAAGAAATTAATTATTTAACACGAATTCATAAAG  
CTCAGTCTGATGGTATCTGGGGTGAACATGAAATTGATTACATTTGTTGGTGAGGAAGAATGTAACCTTGAATC  
CAGATCCCAATGAGATTAAGCTATTGTTATGTGCTAAAGGAAGAACTAAAAGAACTCTGAAAAAAGCAGCCA  
GTGGTGAAATTAAGATAACGCCATGGTTTAAATTTATTGCAGCGACTTTTCTCTTTAAATGGTGGGATAACTTAA  
ATCATTTGAATCAGTTTGTGTGACCATGAGAAAAATACAGAATGTGAATATGTAGGTAAATGATTACAGAAAAAT  
TTATCTGCTTAACAACTTAGAATGACTTTTTCCTTTTAAATTTAGTCTATCATTAAATTTATCATTAAATTTAG  
TTCTATCATTGGTACTATCATTAAATGTATTATATACACTGATACTTTAAACTTGTGTGGAAAAAATAACTTA  
TAATTTTGTATCACACACCCTGGATATGTGTTCTGTTCTAAGCGACATTTGTGAGAGATTATTGTAAATGAGA  
GCGAGCAAATAAACTTAATTTAATCTTTCAGATACATACTTATGGGAAATTTGAACAAATGAGTGAACCTCTG  
TTTTTAGTAGGCTGTGATAAACATTTCCGGAGCACTTGACAGAGGACTTGCTATTTGCCAGGTGCTTTATGTATCA  
TTAAATTTTCTCATAGTTCAGAAAAATGTGCAAAGGAACTATTGTCTCGCTCCTTCAAACAGTCTTAATTAA  
CTTTCATATTAGCAGATTAACTAGCAGAGCAGGTTCAAGGGAAATTAATGATATGGACCCTAATTTGTATCAT  
TCTGAGTTGATTGTGTGGTTTATTCATTCTGGAACATGTTGATACTTACAGTCAGCCACTGCTTTTGATAAGTG  
ATATTGATTAGGTTGAATCTTCTGTAAATAGTATTTACCAGTTAGCAAAGTCTGTGTTTTCAGAATTACAGTGA  
GCACAGAGGTGTCATAAAATGGGAATTGAGTCCCACTCGGTAAGAGTTGCTTAACTTGACACTGTTGACATTT  
GGGCTGGATAAAACCCCTGTGGTGGGGTCTGTGCTGTGCATTGCAGGATGGTGAGCAGCGTCCCTCTCATGTGAC  
ACCCACAGTTATGCCGGATGTTGCCAGATGCCCTAGGGGACAGAGTCAACCCCCAACTGAGGACCACTGTCCTA  
CAGAGTCAGGAAATATTGTAGGGAGAAAAAATAACAACAACAAAGGCCTGTGTTAATGTTAAATAGATGAGATT  
ATGGAATGTGTATATTAATGTTAAAAATTGTACCTTGATCAATGTACTTTTTATAAACTTGCCATAGATATCTCA  
GATTTGAAACCTCAAGACAGATTTATTATTCTTAAATGCTGTATGATAATGAAGAAAAATAAAATTTATTTCTT  
GCAAAGTTAAATGTTTGTAAATTCAATAGAATGACTCATTTATGGTTAACTTTGGGCAATTTATAATTTTCAGAC  
AAGACTGTTTAGCAAGTATTTTATTGAAAAGTAAAAAAATTTGCAATTTAA

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**FIGURE 2877**

MMPEINTNHLDKQQVQLLAEMCILIDENDNKIGAETKKNCHLNENIEKGLLHRAFSVFLFNTENKLLLQQRSDAK  
ITFPGCFTNTCCSHPLSNPAELEESDALGVRRAAQRRLKAELGIPLEEVPEEINYLTRIHYKAQSDGIWGEHEI  
DYILLVRKNVTLPDPNEIKSYCYVSKEELKELLKKAASGEIKITPWFKIIAATFLFKWWDNLNHLNQFVDHEKI  
YRM

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**FIGURE 2878**

GGGGCTTGGTTGAACGGACTCACCAGGAAACGTGACTTTCGTGTCCGACCTCTGCTGTATCAGGATTTCGATTCTT  
GGTGTAAACAAGACAACGCTGAAGGCTCGGTGCAGCAGCCCTGCAAAGCTTTGTGTCTTAGGTTTCAGCGTGCT  
GACGTTCTCTGGGCCCTGAAGTCACTGCTGCTGGCTGGTGTGCTGGCCACTTGGTCGTGCTGGCCTGTCTCCAC  
CGGGTGGATGCCCAGCGAGCTCTGGATGCTGTGTTTTTCAGCGCTCTTGGGAGGTGGGCTGTGCCACTGCCTGG  
CCCACCTGGCCACCTGGCCACCATTACCTGAAGGGAAGCATGAACAGCCTTTGACGTGGGAGTGGCGACTGCT  
GAGAGGGAAGTGTCTGTACACAAGCAATGTAGCCTTATGGGACCTGAGTGGAGCCCCAACCCACGCAGGGCGTGT  
CTTCATGGCTTTTCTGGCCAATCTGATACCAAGATGCAGTGGCCAGAAGTACCTGCACTTCCACTCCTGTCAAG  
TCTCTGCATGGCTATGGTGAGGAAGAGCTCTGCACTGGGCAAGGAAGTTGGCCGTCGAGTGAAGGAAATGGTGAT  
GCTGGTGGCCCCCTTCCGGCAGTCAAGTTCCCTATCAAGGACATTCAGTTCTCGGAAAGTGGTGAAGGCACATGC  
TTCCCTGCATGGTGGCCGCCTCTCTCCACTCTCTAGAAATATTAGAGGCTAGGCTGCTGCTGTATGTCAGGGCTA  
GTCCCTCTTCTATGAATCCAGAATAACTCTGAAGAAGCCGAGTAACAGGCATGAAGTGAAGAGAAATCGCTGTAA  
CAGGAAGACAGCAAAGCAGATGCTAATGACCACACTATTTAACGAACTGGAACCAACGAGAAAATACGGTATTAC  
TGAAGACTGCACTTCCTTGAACAGAGTGCTCTTCTCAGCAAATCGGAAATGCCTACACAAATCGCTTTACAAGAA  
AGACTGTTTCAAAGCAGCACCTTTCTCAATGTTCTCGTTCAGGTGACAATTCTTCTTGGTCTCAGCTCCAATTTT  
ATTGTCAATTTTCATCAATAAGGATACACATCTCTGCCAGGAGTTGAACCTGTTGCTTGTGAGGTGGTTAGTGTT  
TATTTCAAGGCATCATACAAAATGCTGATCTGTTCTAGAACACTAATATTAAAGGAAAAGAGAAAG

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**FIGURE 2879**

CCCGCGTGCCATACGGCTGCCGGCATGGCACATTACAACCTTCAAGAAAATTACGGTGGTGCCGTCGCCCAAGGACT  
TCATAGACCTCACGTTGTCTGAAGACTCAACGAAAGACTCCAACCGTTATTTCATAAACATTACCAAATACATCGCA  
TTAGACATTTTACATGAGAAAAGTCAAATTTACTCAACAGAATTACCATGATAGACTTTCACAAATTCTAACAG  
ATTTCCCCAAATTGGATGATATTCATCCGTTCTATGCTGATTTGATGAATATTCTCTACGACAAGGATCATTACA  
AGTTGGCTCTGGGGCAAATAAATATTGCCAAAAATTTAGTGGACAATGTTGCTAAAGATTATGTGCGACTGATGA  
AGTATGGCGACTCTCTCTACCGCTGCAAACAGCTGAAGCGTGCGGCCCTGGGACGGATGTGCACAGTGATCAAGA  
GGCAGAAGCAGAGTTTGGAGTATTGGAGCAAGTGCCTCAGCATTTATCCCGTTTGCCAACCATTTGATCCGAATA  
CCAGGACCCTGCTTTTGTGTGGGTACCCAAATGTTGGGAAGTCCAGCTTCATCAACAAGGTGACGAGAGCAGACG  
TGGATGTCCAGCCCTATGCGTTTCAACAACCAAGTCTCTGTTTGTGGGCACATGGATTATAAGTATCTACGTTGGC  
AGGTTGTAGACACTCCTGGGATCCTGGACCACCCTCTGGAGGATAGGAACACCATCGAGATGCAGGCCATCACTG  
CCCTGGCCACCTCCGCTGCTGCGGTCTGTATGTGATGGATTTGTCTGAGCAGTGTGGGCATGGGCTGAGGGAGC  
AGCTAGAACTCTTCCAGAACATCAGACCTCTCTTCATCAACAAGCCTCTCATAGTTGTAGCCAACAAATGTGATG  
TGAAGAGAATAGCTGAACCTTTCTGAAGATGATCAGAAAATATTTACAGATTTGCAGTCTGAAGGATTCCCTGTAA  
TAGAGACCAGCACCTGACTGAGGAAGGTGTTATTAAAGTTAAACAGAGGCTTGCGATAGGCTTTTGGCTCATC  
GAGTGGAAACCAAATGAAGGGAAATAAAGTGAATGAGGTGCTGAATAGACTGCACCTGGCTATCCCAACCAGGA  
GGGACGATAAGGAGAGGGCCCCCTTTTCATCCCTGAAGGAGTGGTGGCTCGCAGGAAGAGGATGGAAGTGAAGGAGT  
CCAGGAAGAAGAGGGAACGAGATCTTGAGCTGGAATGGGAGATGATTATATTTTGGATCTTCAGAAGTACTGGG  
ATTTAATGAATTTGTCTGAAAAACATGATAAGATACCAGAAATCTGGGAAGGCCATAATATAGCTGATTATATTG  
ATCCAGCCATCATGAAGAAATTGGAAGAATTAGAAAAAGAAGAAGAGCTGAGAACAGCTGCTGGAGAGTATGACA  
GTGTATCTGAGAGTGAAGACGAAGAGATGCTGGAAATCCGACAGCTGGCAAAGCAAATTCGAGAGAAAAAGAAGT  
TGAAAATTCTGGAGTCCAAAGAAAAGAATACACAGGGACCCAGGATGCCGCGAACTGCTAAGAAGGTTTCAGAGGA  
CAGTTTGGAGAAGGAGATGCGTAGTCTTGGTGTGACATGGACGATAAAGACGATGCCCATACGCAGTCCAGG  
CAAGAAGATCCCGGAGCATCACTAGGAAAAGAAAGCGGGAGACTCTGCTCCCCGCTCCTCTGTGGCCCCGGAGTG  
GGAGTTGCTCTCGAACTCCACGTGACGTTTCTGGTCTTAGGGATGTCAAGATGGTGAAGAAAGCCAAGACTATGA  
TGAAGATGCTCAGAAGAAGATGAATCGGTTGGGGAAGAAAGGGAGGCGGATAGACACGTGTTTGATATGAAGC  
CCAAGCACTTGCTGTCTGGGAAGAGGAAAGCTGGTAAAAAGGACAGGAGATAGTATCCGTTTGGTTGGCGTGGCT  
TCGCTAGAGTGTTGCTGTTTATTTCTGTTTGGCACAGTATGGTTTCATGAAATTGGAGCTCTGTATAAACTGA  
AAAAGACAAAATAAGTAAAGCACTTGTTGCTTTGCTGAAAACATATGGTTAACCCATATAGGTGTGGGAAATTTT  
TGTCAGTGCATAATATTACAAATATTTTGAAGTAGACAGTGTTCACATTTAATGGAGTATCAGTTGCTTCAGAT  
TTTCAGAACTGGGAAGATTTACTGGTTTAACTAGGTTGTTTTTGTGAGAGAAAAACCTTATTTTCTTTGTGAAGA  
GCTGGGAGCAAACACGTTTATGAGTGTGTCGGAATCCCGTGCTTAAAAATACGCTCTTAAATATTTTCTAGTCTT  
ATTTTACAATGTCTCATTTGTAGTCTGTCTTCAACTATTTTATCCAAAATAAACCTCCAGAAGAAAGT



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**FIGURE 2880**

MAHYNFKKITVVP SAKDFIDLTLSKTQRKTPTVIHKHYQIHRIRHFYMRKVKFTQQNYHDRLSQILTD FPKLDDI  
HPFYADLMN ILYDKDHYKLALGQINI AKNLVDNVA KDYVRLMKYGDSL YRCKQLKRAALGRMCTVIKRQKQSLEY  
LEQVRQHLSRLPTIDPNTRTLLLCGYPNVGKSSFINKVTRADVDPYAF TTKSLFVGHM DYKYLRWQVVDTPGI  
LDHPLEDRNTIEMQAITAL AHLRAAVLYVMDLSEQC GHLREQLFQNI RPLFINKPLIVVANKCDVKRIAELS  
EDDQKIFTDLQSEGFPVIETSTLTEEGVIKVKTEACDRLLAHRVETKMKG NKVNEVLNRLHLAIPTRDDKERPP  
FIEGCVARRKRMETEE SRKKRERDLELEM GDDYILD LQKYWDL MNLSEKHDKIPEI WEGHNIADYIDPAIMKKL  
EELEKEEELRTAAGEYDSVSESEDEEMLEIRQLAKQIREKKKLKILESKEKNTQGPRMPRTAKKVQRTVLEKEMR  
SLGVMDDDKDDAHYAVQARRSR SITRKRKREDSAPPSSVARSGSCSRTPRDVSGLRDVKMVKKAKTMMKNAQKKM  
NRLGKKGEADRHVFDMPKPHLLSGKRKAGKKDRR

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**FIGURE 2881**

TGCTAACCAGGCCAGTGACAGAAATGGATTGCGAAATACCAGTGTGTGAAGCTGAATGATGGTCACTTCAATGCCTG  
TCCTGGGATTTGGCACCTATGCGCCTGCAGAGGTTCTTAAAAGTAAAGCTCTAGAGGCCGTCAAATTGGCAATAG  
AAGCCGGGTTCCACCATATTGATTCTGCACATGTTTACAATAATGAGGAGCAGGTTGGACTGGCCATCCGAAGCA  
AGATTGCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCAAAGCTTTGGAGCAATTCCTATCGACCAG  
AGTTGGTCCGACCAGCCTTGGAAAGGTCAGTGAATAATCTTCAATTGGACTATGTTGACCTCTATCTTATTCAAT  
TTCCAGTGTCTGTAAAGCCAGGTGAGGAAGTGATCCCAAAGATGAAAATGGAAAATACTATTTGACACAGTGG  
ATCTCTGTGCCACATGGGAGGCCATGGAGAAGTGTAAGATGCAGGATTGGCCAAGTCCATCGGGGTGTCCAAC  
TCAACCACAGGCTGCTGGAGATGATCCTCAACAAGCCAGGGCTCAAGTACAAGCCTGTCTGCAACCAGGTGGAAT  
GTCATCCTTACTTCAACCAGAGAAAAGTCTGGATTTCTGCAAGTCAAAGACATGTTCTGGTTGCCTATAGTG  
CTCTGGGATCCCATCGAGAAGAACCATGGGTGGACCCGAAGTCCCGGTGCTCTTGGAGGACCCAGTCCCTTGTG  
CCTTGGCAAAAAAGCACAAGCGAAGCCAGCCCTGATTGCCCTGCGCTACCAGCTGCAGCGTGGGGTTGTGGTCC  
TGGCCAAGAGCTACAATGAGCAGCGCATCAGACAGAACGTGCAGGTGTTTGAATCCAGTTGACTTCAGAGGAGA  
TGAAAGCCATAGATGGCCTAACAGAAATGTGCGATATTGACCCTTGATATTTTTGCTGGCCCCCTAATTATC  
CATTTTCTGATGAATATTAACATGGAGGGCATTGCATGAGGTCTGCCAGAAGGCCCTGCGTGTGGATGGTGACAC  
AGAGGATGGCTCTATGCTGGTGACTGGACACATCGCCTCTGGTTAAATCTCTCCTGCTTGGTGATTTCAGCAAGC  
TACAGCAAAGCCATTGGCCAGAAAGGAAAGACAATAATTTGTTTTTCATTTTGAAAAAATTAAATGCTCTCT  
CCTAAAGATTCTTCACCT

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**FIGURE 2882**

MDSKYQCVKLNDGHFMPVLGFGTYAPAEVPKSKALEAVKLAIEAGFHHIDSAHVYNNEEQVGLAIRSKIADGSVK  
REDIFYTSKLWSNSHRPELVRPALERSLKNLQLDYVDLYLIHFPVSVKPGEEVIPKDENGKILFDTVDLCATWEA  
MEKCKDAGLAKSIGVSNFNHRLLEMILNKPGLKYKPCNQVECHPYFNQRKLDFCKSKDIVLVAYSALGSHREE  
PWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTSEEMKAIDGLN  
RNVRYLTLDIFAGPPNYPFSDY

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**FIGURE 2883**

CTCTGAGGAGAAGCAGCAGCAAACATTTGCTAGTCAGACAAGTGACAGGGAATGGATTCCAAACAGCAGTGTGTA  
AAGCTAAATGATGGCCACTTCATGCCTGTATTGGGATTGGCACCTATGCACCTCCAGAGGTTCCGAGAAGTAAA  
GCTTTGGAGGTCACAAAATTAGCAATAGAAGCTGGGTTCCGCCATATAGATTCTGCTCATTATACATAATGAG  
GAGCAGGTTGGACTGGCCATCCGAAGCAAGATTGCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCA  
AAGCTTTGGTCCACTTTTCATCGACCAGAGTTGGTCCGACCAGCCTTGGAAGAACTCACTGAAAAAGCTCAATTG  
GACTATGTTGACCTCTATCTTATTTCATTCTCCAATGTCTCTAAAGCCAGGTGAGGAACTTTACCAACAGATGAA  
AATGGAAGTAATATTTGACATAGTGGATCTCTGTACCACCTGGGAGGCCATGGAGAAGTGTAAAGGATGCAGGA  
TTGGCCAAGTCCATTGGGGTGTCAAACCTCAACCGCAGGCAGCTGGAGATGATCCTCAACAAGCCAGGACTCAAG  
TACAAGCCTGTCTGCAACCAGGTAGAATGTCATCCGTATTTCAACCGGAGTAAATTGCTAGATTTCTGCAAGTCG  
AAAGATATTGTTCTGGTTGCCTATAGTGTCTGGGATCTCAACGAGACAAACGATGGGTGGACCCGAACCTCCCCG  
GTGCTCTTGGAGGACCCAGTCCTTTGTGCCTTGGCAAAAAAGCACAAGCGAACCCAGCCCTGATTGCCCTGCGC  
TACCAGCTGCAGCGTGGGGTTGTGGTCCTGGCCAAGAGCTACAATGAGCAGCGCATCAGACAGAACGTGCAGGTT  
TTTGAGTTCCAGTTGACTGCAGAGGACATGAAAGCCATAGATGGCCTAGACAGAAATCTCCACTATTTTAACAGT  
GATAGTTTGTAGCCACCCTAATTATCCATATTCAGATGAATATTAAACATGGAGAGCTTTGCCTGATGTCTACC  
AGAAGCCCTGTGTGTGGATGGTGACGCAGAGGACGTCTCTATGCCGGTGACTGGACATATCACCTCTACTTAAAT  
CCGTCTGTTTAGCGACTTCAGTCAACTACAGCTGAGTCCATAGGCCAGAAAGACAATAAATTTTATCATTTTG  
AAAT

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**FIGURE 2884**

MDSKQQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTKLAIEAGFRHIDSAHLYNNÉEQVGLAIRSKIADGSVK  
REDIFYTSKLWSTFHRPELVRPALENSLKKAQLDYVDLYLIHSPMSLKPGEELSPTDENGKVIFDIVDLCTTWEA  
MEKCKDAGLAKSIGVSNFNRRQLEMILNKPGLKYKPCNQVECHPYFNRSKLDFCKSKDIVLVAYSALGSQRDK  
RWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEEQLTAEDMKAI DGLD  
RNLHYFNSDSFASHPNYPYSDEY

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**FIGURE 2885**

ATGGATCCCAAATATCAGTGTGTGGAGCTAAATGATGGTCATTTCATGCCTGTATTAGGATTTGGCACCTGTGTA  
CCTCCAGAGGTGATTGACTGCAGTGGAAATGGTTTCTCCGTTTCTTTCTATAATTGAAGAAATTGTTTGTTCCTCC  
AAGAAATAGAGTTGTGGAGGTTACAAAATTAGCAATAGAAGCTGGTTTCTTCCATATTGATTCTGCTCATTATAC  
AATAATGAGGAGCAGGTGGAATGTCATCCTTACCTCAACCAGAGCAAACCTGCTGGATTTCTGCAAGTCAAAGAC  
ATTGTTCTGGTTGCCACACCCTGATTGCTCTGTGCTACCAGCTGCAGCGTGGGGCTGTGGTCCTGGTCAAGAGC  
TCCAATGAACAGCAGATCAGAGAGAACATGCAGGTTTTTGACTTTGAGTTGACTCCAGAGGACATGAAAGCCATT  
GACAGCCTCAACGGAATCTCCGACATGCTAAGTTACAATTTTAA

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**FIGURE 2886**

MDPKYQCVELNDGHFMPVLGFGTCVPPEVIDCSGMVSPFLSIIIEIVCSSKNRVVEVTKLAIEAGFFHIDSAHLY  
NNEEQVECHPYLNQSKLLDFCKSKDIVLVAHTLIALCYQLQRGAVVLVKSSNEQQIRENMQVDFELTPEDMKAI  
DSLNGNLRHAKLQF

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**FIGURE 2887**

CATTTTCACTGCGTTCAAGTATGCTTTTATGAGCTGGTGGTGCCATAGTTTTAGATTCCCTGTATCGAAAAGCTA  
CAATTACATAAGGACAGATCTGTCTGGGTCGTTCAATAACGGTGTTCCTGAAAGTTCGTAAAAGTAATACTTAA  
TTATATTAAAAATTACAACATAACCAGATTTCCCATGATACCATGGTCTTGAATGAAGACAGTCGGAGTATTGG  
AAATGTATACACCTCTTTGGCTGGATCACCCAGAGTGGTAACAGCACTGCTGCCAACACGGAGTCCACACTGACA  
TACCAATTTTACCTGCTTTTCAGTATCAAACAGAAGAAACCCGTAAGTGTCTTGAAGTTCTTCCTGAGTATAACT  
ACTTGCTTTTTTTTGTGGTAAAAAGTTTTGTATCTTTCTGATAGGGACCCTGTCTCGATCTTCTCTAAGAGAG  
AATGTAGCTGGGAGGGTGGTCTTAATTCATTTTACCAAGTATACCCTCAGAATTCTTTGACATAGTCCTGTCTC  
TGTTAATGTCATAAATGCCGTCTTGGCGTGGCCGCCGCCCGAGGACCTGAGATCCCGGCTCGGCCTCCTTCC  
CATGCTTCTCCCGCCGTGCTCTGCGTCCTCCCGGGCCCTCGCGACACCGGCGCACGTGGGAAGCACCAGTCGCC  
GGCTCCGCGCTCCCGCGGGGACCCCCCTCAGGGGCACGCCGTCCGCCCCAGCCCCGGGGTCTCGCCGCGGGCGC  
TGACAGGGACGCCGCGGCCG



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**FIGURE 2888**

MVLNEDSRSIWKCIHLFGWITQSGNSTAANTESTLTYQFYLLFSIKQKKPVSVLKFFLSITTCFFLLVKSFVSFL  
IGTLRSSLRENVAGRVVLIHFHQVYPQNS

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**FIGURE 2889**

CAATGCTACATTAACCCATTATGTAAGACCAATAAATGCAGAGCCAGTGTTCAGCACAGGAAATACCAGCAGG  
CAGAATGGCCAGTTTGGCTTAAGAATGGTGAGCCTGAAGCTGAGTTACATAAAGAAACCACAGGTCCAGGCACTGC  
TGGCCCTCAGTCCAACACCACATCTTCTCTAAAAGGTGAACGCAAAGCCATCCACACGCTGCAAGATGTGTCAAC  
ATGTGAAACAAAGGAGCTATTGAATGTCGGGGTTTCTCCCTTTGTGCTGGTCCCTACCAAAATACAGCAGACAC  
CAAGGAAAACCTCAGTAAAGAGCCTTTGGCCTCCTTTGTTTCAGAATCCTTTGATACTTCTGTTTGTGGAATAGC  
CACAGAGCAGCTAGAAATTGAGAACAGTGGGGAGGGGCTCAGGGCTGAGGCTGGTTCTGAAACCCTAGGCAGAGA  
TGGAGAGGTCCGTGTGAATTCCGACATGCACATGAACCTCTCTGGAGATTCTGATCTAGACCTGCTTGGTGATTG  
TAGAAATCCCAGACTGGATTGGAGGATTCTTATACTTTAAGAGGTAGTTACACCAGGAAAAAAGATGTTCCAC  
AGATGGCTATGAGTCGTCGTTGAACCTCCACAACAACAACCAAGAGGACTGGGGCTGCTCTAGCTGGGTTCAGG  
CATGGAGACGAGCCTCCCTCCCGGCACTGGACTGCTGCGGTAAAGAAAGAAGAGAAGTGTGTGCCGCTTACGT  
CCAAATCCGAGATCTCCACGGGATCCTCAGGACTTACGCCAATCTCTATAACAAAAGAACTCAAAGATACCAT  
GAGAATTTACACGGCCTGAGGAGGCACCCGAGTTTCAGTGCAAACCTGTGGCCTGCCAGCTCCTGGACAAGCAC  
TTGGCAGGTGGCAGACGACCTACCCAGAACACTTTAGACCTGGAGTATCTGCGTTTTGCACATAAACTAAAAA  
GACCATAAAGAATGGGGATTCTCAGCATTCTGCCCTCTGCCAATGTCTTTCCAAAGGAGTCACCAACCAGAT  
CTCCATTGGTGCTTTCCCTTCGACAAAAATCTCTGAGGCCCATTTCTGCATCCTGCACCTAGGAGCAGAAGCCC  
CCTTCTGGTAACAGTTGTGGAGTCAGATCCAGACCACAGGGGAGCCAGGAGAGGCTACACAGCCAGCAGTCT  
GGACAGCTCTTCTCTTGGAGAGAGAGATGTAGTCAATAGAGATCTTAGAAATTCTCAAAGAAATCACACTGT  
TTCATTCCACCTCAACAACTGAAATACAACAGTACTGTGAAGGAATCTCGGAATGATATTTCACTTATTTCAA  
TGAGTATGCTGAATTAACAAGGTGATGAAGAATAGCAACCAATTCATTTCCAAGACAAAGAGCTAAATGATGT  
TTCTGGAGAAGCCACTGCTCAAGAGATGTATCTGCCCTTTCCAGGACGGTCAGCCTCCTATGAAGACATAATCAT  
AGACGTGTGCACCAATTTGCACGTCAAACCTAAGAAGTGTGTGAAAGAGGCTTGTAAGTACCTTTCCTGTTCTA  
CCTTGTCGAAACAGAAAGACAAATCATTCTTTGTAAGAACAAGAACCTTCTGAGGAAAGGAGGCCATACAGAAAT  
TGAACCTCAGCACTTCTGTCAAGCTTTCCACAGAGAGAAATGATACACTAATCATCATCATCAGAAATGAAGATAT  
ATCATCACATTTGCATCAGATTCTTCTTGTGCTGAAGCTGAAGCATTTCCTCCAGTGTATCTTTGCTGGAGTAGA  
CAGCCCTGGAGATGTTCTTGATCACACCTACCAAGAAGTGTTCGTGTCAGGAGGCTTTGTGATATCAGATGACAA  
GATACTAGAAGCTGTAACTTAGTTCAACTGAAGGAAATATCAAAATCCTGGAAAACTAAATGGAAATGGAAG  
ATGGAAGTGGTTGCTTCACTACAGGGAAAAATAAAGCTAAAAGAAGATGAAAGAGTGGATTCAACTGCACATAA  
GAAGAACATAATGTTGAAGTCATTTAGAGTGCAATATCATTGAATTGCTTCATTATCACCAGTGTGACTCTCG  
ATCATCAACAAAAGCAGAAATTTGAAATGTTTGCTAAACCTGCAAAATCAGCATATTGATGCCAGGTTTGCTGT  
CCTCCTAACAGACAAGCCTACTATCCCCAGAGAAGTCTTTGAAAAATAGTGAATCCTTGTTACAGATGTAAATAA  
CTTTATAGAAAACATAGAAAAATAGCAGCTCCATTTAGGAGTAGCTATTGGTGACTCAACTACAGCCTGCCTGG  
ATATGGATGATGCCAATAAAAAATTAGTATTTCCCTTTGGAAAACTTGTGAACATGTGAATACACATGTGAACA  
GTCTTACATTTGAAAAACCAATGTTCTACAACCTTGGAAAGTTTTCATTTTTATATTTTGCTGAAATATGTCACA  
GTGGCATTGCAGTTGTCTGTAGCTTTGGGTGTCAGTGTAGATATTGTTTTAAATATTTTCATTTTAAACAAG  
ATGCCTTCTAAGCTATTGAGCTTATTAATAAATTTTACATGTTTACTTAGTTGGAGCAAAAATAAGTCTATTT  
TAACAAATAGCTTTGTTTTTGCATGCTAATGTGAGAAAGGCATACGATGCACATTATGCTCTGTTTTAAAGGTTT  
TACCACCCTTGTA AAAAATATAATCTTAATGGTTTTTATTTGCTGTACACAAACAACACTACATAAAAAATTTT  
TTCCTAAATGGTACAAATTTATAAACTATCATTTTCACTTACGGTATTTGTAAATACTACACTACAAAAATCAG  
CTTTCTGAGAAAGAAATAATCATTTATTTATGATATTGAAATTTCTACAGTAAACACTCAAAACCAAGCAAAAA  
ACATTTGTAAGATACACGGTATCTATTTGGAGCAACGGTTTTTGTAACTAATGTGTTTCATTTTTTAAATAAAGA  
CAACTAAAAATAA

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**FIGURE 2890**

MASLLKNGEPEAELHKETTGPAGTQSNNTSSLKGERKAIHTLQDVSTCETKELLNVGVSSLCAGPYQNTADTK  
ENLSKEPLASFVSESFDTSVCGIATEHVEIENSGEGLRAEAGSETLGRDGEVGVNSDMHYELSGDSDLDLLGDCR  
NPRLDLEDSTLRGSYTRKDVPTDGYESSLNFHNNNQEDWGCSSWVPGMETSLPPGHWTAAVKKEEKCVPPYVQ  
IRDLHGILRTYANFSITKELKDTMRTSHGLRRHPSFSANGLPSSWTSTWQVADDLTQNTLDLEYLRFHKLKQT  
IKNGDSQHSASSANVFPKESPTQISIGAFPSTKISEAPFLHPAPRSRSPLLVTVVEDPRPQGQPRRGYTASSLD  
SSSSWRERCShNRDLRNSQRNHTVSFHLNKLKYNSTVKESRNDISLILNEYAEFNKVMKNSNQFIFQDKELNDVS  
GEATAQEMYLPFPGRSASYEDIIDVCTNLHVKLRSVVKEACKSTFLFYLVETEDKSFFVVRTKNLLRKGHTEIE  
PQHFCQAFHRENDTLIIIIIRNEDISSHLHQIPSLKLKHFPVIFAGVDSPGDVLDTYQELFRAGGFVISDDKI  
LEAVTLVQLKEIIKILEKLNGNGRWKLLHYRENKKLKEDERVDSTAHKKNIMLKSFSQSANIIELLHYHQDSRS  
STKAEILKCLNLQIQHIDARFAVLLTDKPTIPREVFENSGLVTDVNNFIENIEKIAAPFRSSYW

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**FIGURE 2891**

GGCGGTGCGGTCTCGCCTTGTCGCCAGCTCCATTTTCCTCTCTTTCTCTTCCCCTTTCTTTCGCGCCCAAGAGCGC  
CTCCCAGCCTCGTAGGGTGGTCACGGAGCCCCTGCGCCTTTTCCTTGCTCGGGTCTGCGTCCGCGCCTGCCCCG  
CCATGAATGAGGAGTACGACGTGATCGTGCTGGGCACCGCCTGACGGAATGTATCCTGTGAGGTATAATGTCAG  
TGAATGGCAAGAAAGTTCTTCATATGGATCGAAACCCTTACTACGGAGGAGAAAGTGCATCTATAACACCATTGG  
AAGATTTATACAAAAGATTAAAATACCAGGATCACACCCGAGTCAATGGGGAGAGGAAGAGACTGGAATGTTG  
ACTTGATTCCCAAGTTCCTTATGGCTAATGGTCAGCTGGTTAAGATGCTGCTTTATACAGAGGTAACCTGCTATC  
TGGATTTTAAAGTGAAGGGAGCTTTGTCTATAAGGGTGGAAAAATCTACAAGGTTCCCTTCCACTGAAGCAG  
AAGCCCTGGCATCTAGCCTAATGGGATTGTTTGA AAAACGTCGCTTCAGGAAATTCCTAGTGTATGTTGCCAACT  
TCGATGAAAAAGATCCAAGAACTTTTGAAGGCATTGATCCTAAGAAGACCACAATGCGAGATGTGTATAAGAAAT  
TTGATTTGGGTCAAGACGTTATAGATTTTACTGGTCATGCTCTTGCACTTTACAGAAGTATGATTACTTAGATC  
AACCGTGTATGAAACCATTAAATAGAATTAACCTTTACAGTGAATCTTTGGCAAGATATGGCAAAAGCCCATACC  
TTTATCCACTCTATGGCCTTGGAGAAGTCCCCAAGGATTTGCAAGGCTAAGTGCTATTTATGGAGGTACCTATA  
TGCTGAATAAACCCATTGAAGAAATCATTGTACAGAATGGAAGTAATTGGTGTAATACTGAAGGAGAAATTG  
CTCGCTGTAAGCAGCTCATCTGTGACCCAGCTACGTAAAAGATCGGGTAGAAAAAGTGGGCCAGGTGATCAGAG  
TTATTTGCATCCTCAGCCACCCCATCAAGAACCAATGATGCCAACTCCTGCCAGATCATTATCCACAGAACC  
AAGTCAATCGAAAGTCAGATATCTACGTCTGCATGATCTCCTTTGCGCACAATGTAGCAGCACAAGGGAAGTACA  
TTGCTATAGTTAGTACAAGTGTGGAACCAAGGAGCCTGAGAAGGAAATCAGACCAGCTTTGGAGCTCTTGGAAC  
CAATTGAACAGAAATTTGTTAGCATCAGTGACCTCCTGGTACCAAAAGACTTGGAACAGAAAGCCAGATCTTTA  
TTTCCGCACATATGATGCCACCACTCATTTTGAGACAACGTGTGATGACATTAAAAACATCTATAAGAGGATGA  
CAGGATCAGAGTTTGACTTTGAGGAAATGAAGCGCAAGAAGATGACATCTATGGGGAAGACTAACAGCAGTACA  
TGTTATTATGTAATTAGGACACATTTAAAATTTGGCAAATAATGCATATAATGAAATCAATATTGTAAGGCCTGC  
TTTTTGTAATGAAATGGAGAGAATGAAGAGCGCTGTGCCAGTAAATACTCCCCTTCACCTTTCTAATTATTAACCT  
TGTTTTTCATGGAGTGGCTATTCAGCATTGGCAGTTACCACATTCTGTTCAATTTAACCAACTGGCTTTTTTTTT  
TTTCTAGTGAAGTTAAACAAACATTGGGATACCGACACAGACAACCTTGAGACAGTTTTTTTTAATCTTTTAATCAG  
TGTAGCTATGTGCTGCTGCTCAAGAGCTGGATCCATACAGGTTGTGTGTCATCTGTCCTCTTGAGGTTTCAGG  
AGATTCTAAATTGAATATTCCACGGTTTGGGACAGCATCCGGAAGTTTTCCCTATGACTTTATATTTGTATTAT  
GTCAAATGTTATGGCAGGGCCCAATAGCATAGCCACAAGTTTGGTTTATGTGGGCATAAAATTTAACCAAACC  
CCAGACATAGGGAGTCATTGGAGAAAGCCTGTATGTGGTGTTTTAACCTAATAAAGTTGATGAGAGAGAAGGGG  
AGAGGAAGCGAACATAAAGCGGGTCAAGTGTAGTGCATCTTTTGATCTCAGGCGTGGCTTCTTCAGTGGACCAA  
GCTGCAATGCAGTATTGACTTGACAGAGCCTTACTTCTGTCTCAAAATGGCTCCAAATGATTTCTGTACTGCAA  
AATAAAGCCAAATTCTGGAACTA

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**FIGURE 2892**

MNEEYDVIVLGTGLTECILSGIMSVNGKKVLHMDRNPYYGGESASITPLEDLYKRFKIPGSPPESMGRGRDWNVD  
LIPKFLMANGQLVKMLLYTEVTRYLDFKVTEGSFVYKGGKIYKVPSTEAEALASSLMGLFEKRRFRKFLVYVANF  
DEKDPRTFEGIDPKKTTMRDVYKKFDLGQDVIDFTGHALALYRTDDYLDQPCYETINRIKLYSESLARYGKSPYL  
YPLYGLGELPQGFARLSAIYGGTYMLNKP IEEIIVQNGKVIGVKSEGEIARCKQLICDPSYVKDRVEKVGQVIRV  
ICILSHPIKNTNDANSCQIIIPQNQVNRKSDIYVCMISFAHNVAAGKYIAIVSTTVETKEPEKEIRPALELLEP  
IEQKFVSISDLLVPKDLGTESQIFISRTYDATTHFETTCDIKNYKRMTGSEFD FEEMKRKKNDIYGED

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**FIGURE 2893**

GGCACGAGGGACTCAGCGAAGGGTGGGCGCCGCCGAGGCCTCCTGCCGCTGGCGGGTTTCCGCGGAGTGCCGCCC  
GGCTCCGCTCTGCCGCCGGCGCGGCTCATGGGCAGAGTCGGCCGGGCGGGCCGGCATTAAACTGAAGAAAAGATG

TCCCTGTACGATGACCTAGGAGTGGAGACCAGTGACTCAAAAACAGAAGGCTGGTCCAAAACTTCAAACCTCTG  
CAGTCTCAGCTTCAGGTGAAGAAGGCAGCTCTCACTCAGGCAAAGAGCCAAAGGACGAAACAAAGTACAGTCCCTC  
GCCCCAGTCATTGACCTGAAGCGAGGTGGCTCCTCAGATGACCGGCAAATGTGGACACTCCACCGCATGTAGCA  
GCTGGGCTGAAGGATCCTGTTCCAGTGGGTTTTCTGCAGGGGAAGTTCTGATTCCCTTAGCTGACGAATATGAC  
CCTATGTTTCTTAATGATTATGAGAAAGTAGTGAAGCGCCAAAGAGAGGAACGACAGAGACAGCGGGAGCTGGAA  
AGACAAAAGGAAATAGAAGAAAGGGAAAAAAGGCGTAAAGACAGACATGAAGCAAGTGGGTTTGCAAGGAGACCA  
GATCCAGATTCTGATGAAGATGAAGATTATGAGCGAGAGAGGAGGAAAAGAAGTATGGGCGGAGCTGCCATTGCC  
CCACCCACTTCTCTGGTAGAGAAAGACAAAGAGTTACCCCGAGATTTTCTTATGAAGAGGACTCAAGACCTCGA  
TCACAGTCTTCCAAAGCAGCCATTCTCCCCCAGTGTACGAGGAACAAGACAGACCGAGATCTCCAACCGGACCT  
AGCAACTCCTTCTCGCTAACATGGGGGGCACGGTGGCGCACAAGATCATGCAGAAGTACGGCTTCCGGGAGGGC  
CAGGGTCTGGGGAAGCATGAGCAGGGCCTGAGCACTGCCTTGTGAGTGGAGAAGACCAGCAAGCGTGGCGGCAAG  
ATCATCGTGGGCGACGCCACAGAGAAAGATGCATCCAAGAAGTCAGATTCAAATCCGCTGACTGAAATACTTAAG  
TGTCTACTAAAGTGGTCTTACTAAGGAACATGGTTGGTGCGGGAGAGGTGGATGAAGACTTGGAAGTTGAAACC  
AAGGAAGAATGTGAAAAATATGGCAAAGTTGGAAAATGTGTGATATTTGAAATTCCTGGTGGCCCTGATGATGAA  
GCAGTACGGATATTTTGAATTTGAGAGAGTTGAATCAGCAATTAAAGCGGTTGTTGACTTGAATGGGAGGTAT  
TTTGGTGGACGGGTGGTAAAAGCATGTTTCTACAATTTGGACAAATTCAGGGTCTTGGATTTGGCAGAACAAAGTT  
TGATTTTAAGAACTAGAGCACGAGTCATCTCCGGTGATCCTTAAATGAAGTGCAGGCTGAGAAAAGAAGGAAAAA  
GGTCACAGCCTCCATGGCTGTTGCATACCAAGACTCTTGAAGGACTTCTAAGATATATGTTGATTGATCCCTTT  
TTTATTTGTGGTTTTTTAATATAGTATAAAAAATCCTTTAAAAAAACAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2894**

MSLYDDLGVETSDSKTEGWSKNFKLLQSQLQVKKAAALTOAKSQRTKQSTVLAPVIDLKRGGSSDDRQIVDTPPHV  
AAGLKDPVPSGFSAGEVLIPLADEYDPMFPNDYEKVVKRQREERQQRERLERQKEIEEREKRRKDRHEASGFARR  
PDPDSDEDEDYERERRKRSMGGAAIAPPTSLVEKDKELPRDFPYEEDSRPRSQSSKAAIPPPVYEEQDRPRSPTG  
PSNSFLANMGGTVAHKIMQKYGFREGQGLGKHEQGLSTALSVEKTSKRGGKIIVGDATEKDASKKSDSNPLTEIL  
KCPTKVVLRLNMVGAGEVDEDELEVETKEECEKYGKVGKCVIFEIPGAPDDEAVRIFLEFERVESAIKAVVDLNGR  
YFGGRVVKACFYNLDKFRVLDLAEQV

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**FIGURE 2895**

CTGACCGACCTTCAGCAGGGCTGTGGCTACCAATGTTCTCTCGCGCGGGTGTGCTGGGCTGTCGGCCTGGACCTT  
GCAGCCGCAATGGATTCAAGTTCGAAATATGGCAACTTTGAAAGATATCACCAGGAGACTAAAGTCCATCAAAAA  
CATCCAGAAAATTACCAAGTCTATGAAAATGGTAGCGGCAGCAAAATATGCCCCGAGCTGAGAGAGAGCTGAAACC  
AGCTCGAATATATGGATTGGGATCTTTAGCTCTGTATGAAAAAGCTGATATCAAGGGGCCTGAAGACAAGAAGAA  
ACACCTCCTTATTGGTGTGTCCTCAGATCGAGGACTGTGTGGTGTATTTCATTCTCCATTGCTAAACAGATGAA  
AAGCGAGGTTGCTACACTAACAGCAGCTGGGAAAGAAGTTATGCTTGTGGAATTGGTGACAAAATCAGAGGCAT  
ACTTTATAGGACTCATTCTGACCAGTTTCTGGTGGCATTCAAAGAAGTGGGAAGAAAGCCCCCACTTTTGGAGA  
TGCGTCAGTCATTGCCCTTGAATTACTAAATTCTGGATATGAATTTGATGAAGGCTCCATCATCTTTAATAAATT  
CAGGTCTGTCTCTCTATAAGACAGAAGAAAAGCCCATCTTTCCCTTAATACCGTTGCAAGTGCTGACAGCAT  
GAGTATCTATGACGATATTGATGCTGACGTGCTGCAAAATTACCAAGAATACAATCTGGCCAACATCATCTACTA  
CTCTCTGAAGGAGTCCACCACTAGTGAGCAGAGTGCCAGGATGACAGCCATGGACAATGCCAGCAAGAATGCTTC  
TGAGATGATTGACAAATTGACATTGACATTCAACCGTACCCGCCAAGCTGTCATCACAAAAGAGTTGATTGAAAT  
TATCTCTGGTGTGTCAGCTCTGTAAAGAAGGAAAATTACGCCAGTTGATTTTGTTTTTAGCTTACTGCTGCCTTT  
GTCCGAAGAACTGTTCCCTCCATTATTTGAATTACTGAAGACAGCAAGATATTTGTAAATTATCTTAAATAAAC  
AACTTAAATAAAATCATTGTTTTTCTT



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**FIGURE 2896**

MF SRAGVAGLSAWTLQPQWIQVRNMATLKDITRRLKSIKNIQKITKSMKMVAAAKYARAERELKPARIYGLGSLA  
LYEKADIKGPEDKKKHLIGVSSDRGLCGAIHSSIAKQMKSEVATLTAAGKEVMLVGIGDKIRGILYRTHSDQFL  
VAFKEVGRKPPTFGDASVIALELLNSGYEFDEGSIIFNKFRSVISYKTEEKPIFSLNTVASADSMSIYDDIDADV  
LQNYQEYNLANIIYYSLKESTTSEQSARMTAMDNASKNASEMIDKLTLTFNRTRQAVITKELIEIISGAAAL

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**FIGURE 2897**

TCCCAGCCTTCCCATCCCCCACCAGAAAGCAAATCATTCAACGACCCCCGACCCTCCGACGGCAGGAGCCCCCG  
ACCTCCCAGGCGGACCGCCCTCCCTCCCCGCGCGGGTTCCGGGCCCCGGCGAGAGGGCGCGAGCACAGCCGAGG  
CCATGGAGGTGACGGCGGACCAGCCGCGCTGGGTGAGCCACCACCACCCCGCGTGCTCAACGGGCAGCACCCGG  
ACACGCACCACCCGGGCCTCAGCCACTCCTACATGGACGCGGCGCAGTACCCGCTGCCGGAGGAGGTGGATGTGC  
TTTTTAACATCGACGGTCAAGGCAACCACGTCCCGCCCTACTACGGAACTCGGTCAAGGGCCACGGTGACAGGT  
ACCTTCCGACCCACCACGGGAGCCAGGTGTGCCGCCCGCCTCTGCTTCATGGATCCCTACCCTGGCTGGACGGCG  
GCAAAGCCCTGGGCAGCCACCACACCGCCTCCCCCTGGAATCTCAGCCCTTCTCCAAGACGTCCATCCACCAG  
GCTCCCCGGGGCCCTCTCCGTCTACCCCCCGGCCTCGTCTCTCTTGTGCGGGGGCCACGCCAGCCCGCACC  
TCTTCACCTTCCCGCCCACCCCGCGAAGGACGTCTCCCGGACCCATCGCTGTCCACCCAGGCTCGGCCGGCT  
CGGCCCCGGCAGGACGAGAAAGAGTGCCTCAAGTACCAGGTGCCCTGCCCGACAGCATGAAGCTGGAGTCGTCCC  
ACTCCCGTGGCAGCATGACCGCCCTGGGTGGAGCCTCCTCGTCGACCACCACCCCATCACCACCTACCCGCCCT  
ACGTGCCCCGAGTACAGCTCCGACTCTTCCCCCCCAGCAGCCTGCTGGGCGGCTCCCCACCCGGCTTCGGATGCA  
AGTCCAGGCCCCAAGCCCCGGTCCAGCACAGGCAGGGAGTGTGTGAAGTGTGGGGCAACCTCGACCCCACTGTGGC  
GGCGAGATGGCACGGGACACTACCTGTGCAACGCCTGCGGGCTCTATCACAAAATGAACGGACAGAACCGGCCCC  
TCATTAAGCCCAAGCGAAGGCTGTCTGCAGCCAGGAGAGCAGGGACGTCCTGTGCGAACTGTGACACCACCACAA  
CCACACTCTGGAGGAGGAATGCCAATGGGGACCCTGTCTGCAATGCCTGTGGGCTCTACTACAAGCTTCACAATA  
TTAACAGACCCCTGACTATGAAGAAGGAAGGCATCCAGACCAGAAACCGAAAAATGCTAGCAAATCCAAAAAGT  
GCAAAAAAGTGCATGACTCACTGGAGACTTCCCCAAGAACAGCTCGTTTAACCCGGCCGCCCTCTCCAGACACA  
TGTCTCCCTGAGCCACATCTCGCCCTTCAGCCACTCCAGCCACATGCTGACCACGCCCACGCCGATGCACCCGC  
CATCCAGCCTGTCTTTGGACCACACCACCCCTCCAGCATGGTCAACGCCATGGGTTAGAGCCCTGCTCGATGCT  
CACAGGGCCCCCAGCGAGAGTCCCTGCAGTCCCTTTCGACTTGCATTTTTGCAGGAGCAGTATCATGAAGCCTAA  
ACGCGATGGATATATGTTTTTGAAGGCAGAAAGCAAATATGTTTGCCACTTTGCAAAGGAGCTCACTGTGGTG  
TCTGTGTTCCAACCACTGAATCTGGACCCCATCTGTGAATAAGCATTCTGACTCATATCCCTATTTAACAGGG  
TCTCTAGTGCTGTGAAAAAAAAAATGCTGAACATTGCATATAACTTATATTGTAAGAAATACTGTACAATGACTT  
TATTGCATCTGGGTAGCTGTAAGGCATGAAGGATGCCAAGAAGTTTAAGGAATATGGGAGAAATAGTGTGGAAT  
TAAGAAGAACTAGGTCTGATATTCAAATGGACAACTGCCAGTTTTGTTTCCTTTCACTGGCCACAGTTGTTTG  
ATGCATTAAAAGAAAATAAAAAAAGAAAAAGAGAAAAGAAAAAAGAAAAAGTTGTAGGCGAATCATTTG  
TCAAAGCTGTTGGCCTCTGCAAAGGAAATACCAGTTCTGGGCAATCAGTGTTACCGTTCAACAGTTGCCGTTGA  
GGGTTTCAGAGAGCCTTTTCTAGGCCTACATGCTTTGTGAACAAGTCCCTGTAATTGTTGTTGTATGTATAAT  
TCAAAGCACAAAATAAGAAAAGATGTAGATTTATTTTCATCATATTATACAGACCGAACTGTTGTATAAATTTAT  
TTACTGCTAGTCTTAAGAACTGCTTTCTTCGTTTGTGTTGTTCAATATTTTCCTTCTCTCAATTTTTGGTTG  
AATAAACTAGATTACATTCAGTTGGC

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**FIGURE 2898**

TGGCACCGGCATCGGCTGACACTGCTGCCTCCAGCTAGTTATTTTCGTCCTCTTCCGTTCTTCACCCCTACACCTT  
GGAGGTGAACCTTCTCACCTGAGGGCTGTAAAGACTCGTTTGAAAATGGAGAGCCAAGAACCAACGGAATCTTCTC  
AGAATGGCAAACAGTATATCATTTTCAGAGGAGTTAATTCAGAAGGAAAATGGGTCAAGCTTGAAAAACAACGT  
ACATGGATCCTACTGGTAAACTAGAACTTGGGAATCAGTGAAACGTACAACCAGGAAAGAGCAGACTGCGGATG  
GTGTCGCGGTTCATCCCGTGCTGCAGAGAACACTTCACTATGAGTGTATCGTTCTGGTGAAACAGTTCGGACCAC  
CAATGGGGGGCTACTGCATAGAGTCCCTGCAGGTCTCATAGATGATGGTGAAACCCAGAAGCAGCTGCTCTCC  
GGGAGCTTGAAGAAGAACTGGCTACAAAGGGGACATTGCCGAATGTTCTCCAGCGGTCTGTATGGACCCAGGCT  
TGTCAAACTGTACTATACACATCGTGACAGTCACCATTAACGGAGATGATGCCGAAAACGCAAGGCCGAAGCCAA  
AGCCAGXXXXXXXXXAGTTTGTGGAAGTCATTTCTTTACCCAAGAATGACCTGCTGCAGAGACTTGATGCTCTGG  
TAGCTGAAGAACATCTCACAGTGGACGCCAGGGTCTATTCTACGCTCTAGCACTGAAACATGCAAATGCAAAGC  
CATTGAGTGCCTTCTTGAAATTTTAAGCCCAAAATGACACTGGCCATTTTGTAAACGAGACCACCAGGCC  
TTCTTCACTAAGACTTTGTATTCACTTAGTTTAATGTAGATTTGCCATTAGCTTTTTCGTAAAATAAAAGCACA  
GAACAGATGTGGTGGTGGTATGGAATTGTAATTACAGGTAGGTTGTGACCTTCCTTTAAATTTGTTATAACTCCA  
GCTAAAATTAACAAAGAATATAAATGCAAGTATGTTTACTCCAATTTTTTAAAGCTCAACAGCAGTTAACTACA  
GCTCAGTTACTTTTCTAGTCCAGTCTGGTAGACAGGGGTATTTGTATAGAGAAATAGACCTGAGTTCTCAATTAG  
GTCA

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**FIGURE 2899**

TGCGTTTAGGGCGAAGACGGAGTTGTAACTTCTTAAAATTCCTCTCTCGACACTTCGGTAATTCCTCTTTTCGAG  
ACTAAAGCTCTTTTTGTATGCGTGTGTGTCAAGCGTATGCCCCGGGATTCTCCTCCGCTTCCTTTTCTCGGTCTT  
CCTTCTTGCTTTAGGGACCGGAAGAGTCCTTGAACCAAAATAGCTCGGCGGGCACTTCGGGGCCGGCGCCAGA  
GTTCCGGGAGGGTGCAGGCAGGAGAGGGAAAGGCAGCAGCGCGGCAGCTGGAGGATGAAGAAGGAGCATGTGCT  
TCAC TGCCAGTTCTCCGCTGGTACCCGTTCTCCGAGGCGTTACCATCAAGAGTGTCAATTCTTCCACTTCCTCA  
GAATGTGAAGGATTATTTACTCGATGATGGAACCTCTGGTGGTTTCAGGAAGGGATGATCCACCAACACATTCTCA  
GCCAGACAGTGATGATGAAGCAGAAGAAATACAGTGGTCTGATGATGAGAACACAGCCACGCTTACGGCACCAGA  
ATTTCTTGAGTTTGCCACTAAAGTCCAGGAACCTATCAATTCCCTCGGGGGCAGTGTCTTTCTTAAGCTTAATTG  
GAGTGCCCCAAGGGATGCGTATTGGATAGCAATGAATAGTTCTCTGAAATGTAAAACCTCAGCGACATCTTTCT  
GCTTTTCAAGAGTTCCGATTTTCATCACTCGTGACTTCACTCAGCCGTTTATTCAATTGTAAGTGTATCTCCAGA  
TCCATGTATAGAATATGAGCTCGTTCTCCGAAAATGGTGTGAATTGATTCTGGGGCTGAGTTTCGATGTTTTGT  
CAAGGAAAACAAGCTTATTTGGTATTTCTCAAAGAGACTACACACAATACTATGATCATATTTCTAAACAAAAGGA  
AGAAATTCGCAGATGCATACAAGACTTTTTCAAGAAACACATACAGTACAAATCTTAGATGAAGACTTTGTGTT  
CGATATATACAGAGACAGTAGGGGGAAGGTGTGGCTCATTGACTTTAATCCATTGGTGAAGTCACAGATTCACT  
GCTGTTACCTGGGAAGAACTGATATCTGAGAACAACCTAAACGGCGATTTTAGTGAAGTTGACGCTCAAGAGCA  
GGATTCCCCAGCTTTCCGTTGCACAAACAGTGAAGTGACAGTCCAGCCCAGCCCCTATTTGAGTTACCGGCTACC  
CAAGGACTTTGTAGACCTCTCTACTGGGAGGGACGCTCACAAGCTAATAGACTTCCTTAAGCTGAAGAGAAATCA  
GCAGGAGGACGACTGATGAGCGTACTGTAAC TGAGAAGAGGAGCCCCGCCCCACCGCTCCGGGAGCTGCTCAT  
CAGCCGCAACTTCCTGCCGACCTGATGCGGGTGGGCCGAGCAGTGTGGACATCAGCCACTTTTTATATTCAITG  
ACATTACCTGGGGAAAAAACGGAGGGACTTTGCTACTTGTAATAAATAACATAATAAATAGATCTTAAACATAG  
GAAACCATACTGTTCTGATAATAAAATGCTTTCATGAAAT

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**FIGURE 2900**

MKKEHVLHCQFSAWYPFFRGVTIKSVILPLPQNVKDYLDDGTLVVSGRDDPPTHSQPDSDEAEI QWSDDENT  
ATLTAPEFPEFATKVQEPINSLGGSVFPKLNWSAPRDAYWIAMNSSLKCKTLSDIFLLFKSSDFITRDFTQPF IH  
CTDDSPDPCIEYELVLRKWCELIPGAEFRFCFVKENKLIGISQRDYTQYYDHISKQKEEI RRCIQDFFKKHIQYKF  
LDEDFVFDIYRDSRGKVLIDFNPFGEVTD SLLFTWEELISENNLNGDFSEVDAQEQDSPAFRCTNSEVTVQPS P  
YLSYRLPKDFVDLSTGRDAHKLIDFLKLKR NQQEDD

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**FIGURE 2901**

CCGGCTCCCGCAGGGCCGCGCCGAGGCAGGCGAGCCCCGCGGCGCCAGGCGCGGGCCCGGGCCCCCGCGCCG  
CCGCCCGCCCGGGCGCGGCATTTTTATTAGGCGACGCTTAAGGGAGCCCGCGCGCCCGGTGCATTGTGGGA  
GCGGCCCGCGGCCCGTTTTTCGGGAGGAGGCGGAGGGCGCAAAGCGAGCCGGTGGATCCATAAAGAAGCCAGCCAA  
CCCGCAGAGGGAGGGGAGGGGCTGAGCTGTGAGGAGAGCGGGGCCCAAGAACCATGTCTACGCGGGAGTCTTTA  
ACCCGAAAGTTACGAATTGGACAAAAGCTTCCGGCTAACCAGATTCACTGAAGTGAAGGGCACAGGCTGCAAAG  
TGCCCCAAGATGTCTGCAAAAATTGCTGGAATCTTTACAGGAGAACCCTTCCAAGAAGATGAGCAGTTTCTGG  
GAGCCGTATGCCAAGGCTTGGCATTGGAATGGATACTTGTGTATTCTTTGAGGCACGGTGGGCTTTCCTTGG  
TTCAAACACAGATTACATTTACCCGATCGTAGACGACCCCTTACATGATGGGCAGGATAGCGTGTGCCAATGTCC  
TCAGTGACCTCTATGCAATGGGGGTACGGAATGTGACAATATGCTGATGCTCCTTGGAGTCAGTAATAAATGA  
CCGACAGGGAAAGGGATAAAGTGATGCCTCTGATTATCCAAGGTTTTAAAGACGCAGCTGAGGAAGCAGGAACAT  
CTGTAAACAGGCGGCCAAACAGTACTAAACCCCTGGATTGTCTGGGAGGAGTGGCTACCACTGTCTGCCAACCA  
ATGAATTTATCATGCCAGACAATGCAGTGCCAGGGGACGTGCTGGTGCTGACAAAACCCCTGGGGACACAGGTGG  
CAGTGGCTGTGCACCAAGTGGCTGGATATCCCTGAGAAATGGAATAAGATTAACTAGTGGTCACCAAGAAGATG  
TAGAGCTGGCCTACCAGGAGGCGATGATGAACATGGCGAGGCTCAACAGGACAGCTGCAGGACTCATGCACACGT  
TCAATGCCCACGCCGCCACTGACATCACGGGCTTCGGGATTTTGGGCCATGCGCAGAACCTGGCCAAGCAGCAGA  
GGAACGAGGTGTCTGTTTGAATTCACAACCTCCCGGTGCTGGCCAAGATGGCTGCGGTGAGCAAGGCCTGCGGAA  
ACATGTTGCGCCTCATGCACGGGACCTGCCCGGAGACTTCAGGCGGCCTTCTGATCTGTTTACCACGTGAGCAAG  
CAGCTCGGTTCTGTGCAGAGATAAAGTCCCCCAAATATGGTGAAGGCCACCAAGCATGGATTATTGGGATTGTAG  
AGAAGGGCAACCGCACAGCCAGAATCATAGACAAACCCGGATCATCGAGGTGCGACCACAAGTGGCCACTCAAA  
ATGTGAATCCACACCCGGGGCCACCTCTTAATCTAGACAGAAATAGCTGTTTGGTTTTGTTTTAAATAGATCT  
ATTTCCCTTATCACTTCAATTAAAGACTATAAACAACAAAAATCTCATTGTGTCTACACATCGGGGTGACCTTAG  
GTCGGTTTGTAAGTGGATACAATTAATAAAATAAAATCCATTGCCTTTTTTCTGTTACATTAAGTGAAGATGC  
ACCTAATCTTGAGGCAGCTTCTGAGTTGAGAATT

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FIGURE 2902

GAGAGCCCTCCTCAGGGGCTGTCTCTGCCTTCCCTTCTTCCCATGTGTATCTGGGGCAGCTGAGGCAGGGCTAGG  
AGAAGAGCCCAGGTTCTCTCCTGCCACCTCCAAGCGATGAAGCAGCCCTGGGGCCAACCTCCAGCATTCTCGTGTGAA  
CTGCAGAGGAGCCCTGCGCTTCCAGCTACTTGCAGCCAGACAGCCACCTGAGGATATTGACCATAAGGACTCAT  
ATCTCATTACAAGAAGCATCATGCGCCGAGCCAGACTACATAGAAGATGACAATCCTGAACTCATTAGGCCCTCAGA  
AACTGATCAATCCTGTAAAAACCTCCCGGAACCATCAAGATCTTACAGAGAACTTCTTATGAATCAAAAAAGGG  
GTCTTGCTCCTCAGAACAAACCAGAATTGCAGAAGGTGATGGAAAAAGAAAACGAGACCAAGTAATAAAGCAGA  
AGGAAGAAGAAGCACAGAAGAAGAAATCTGACTTGGAATAGAGCTATTAACCGGCAGCAGAAGTTGGAGCAGC  
TTGAACCTTGAGAAGCAGAAATTGCAAGAAGAGCAAGAAAATGCCCCGAGTTTGIGAAGGTGAAAGGCAATCTCA  
GGAGAACAGGCCAAGAAGTCGCCCAAGCCAGGAGTCCTAGGCTGAGGCTGCACCAAGACCTCGTGTGTCACCCC  
ACAGAGCTGTCTGTGGGTGCCTTCTCAATCTCAGGGCAAAGCCCTGGAGAATATTTACGCCAGCAGAGAATTT  
TGACTTGCACTAGGATTTGGTTTGATTTCTACGATCTGGGTGGATGCCTTGCTGTGACAGTTGCAGTTCCCTA  
TTCGCCAAATGAAGGGCAGTGCCCGCACGTAAGTTGGAATGATGGACCTGTGTTACAGAGACTTAACAGAACCAA  
CAAGCAAAACAAGTGAGAACAGGAAAAAGGAAGAGGACACTGGAATCAATCTTGAGAGTTGCACTACTTGGTTT  
TTCTTCCATTCCAAGTTTCGTGGGACCCAGAGCCTTTTTCTTTTAAAGCTAAAAACAAGTGTTAATTCCTC  
TTTTTGTATCTGTTAGATAATTGAGATCACCTAGAAATGCGTTAATCTGTTCACTCACTGTAAATTTTGAGGA  
CCCAGAATTGTCTTGTTAATTTATACCTTACCCCTGTTGCAGTTAACACCAGAGAAGGAACGTGAATGTCGAG  
CACAGCCACTACCCTTGTGGCACTTAATTTAGAAATAGGGTGAGAAGTTTAAAGCCCATCTTGATTTTATTTT  
CATTCTTTTGGTTCTCTGTGTAATAATAGCAGGCTACATAGTGACATTCCAGTTCCAAGAAGGTACATCCTGTC  
CATTCAATTAATTGCTTTGATTACTAGGAGGTTTCTGTTCACTTTTGTGTTTTAAATGTCTTGCTGATCTAGTTCT  
TTCAGATGGAATAACCTTCCAGTCCCTTAGAGAGTGGAAC TAGTCCATATAACCCAGCTTCAGTAGCAAAAGTAG  
AAGCCGCCACATCTTTTCAATTTCTCCAAGAGGAGAGTGGGGAAGGTTCCCATGACCAGCTGGGCAGTCAGGATTT  
CTCTAGGCATTCTAATGTGAATAAGTGTAGACTGCTGTCAAGGAGGCTTCATCAGAAGATGTATAGCATTGAA  
TGTCTAATGATAATGCATATCATTAGAATCCAAGCTTTGAAAATTTCTGATTAATGCTCATGTATTCTTTATCT  
TTGTTTTCTCTGTGAAGAAAGACTTTTACCACCTGTCTGAGTGATGATGCTGTTGATAAGGATGATGTCGATGAC  
TACTATATTGCATCTCTCAGGAACAGCTGATGGGAAGGGAGGGGCTGCTGAGTTCCCTTGTTCTAGCTAGCAGCA  
CGCTCCTCAGAGAGGGGGCCGAGTTACAGACAGCAGCCGCAATCTCATGCAAAATTAGTTTTAACTGCTAGTGT  
GGGCATCGGTACCTTTTGCCTGGGTGATACCGAAGAATTGTTGAGGATTTAGTATGCTCCGTAGAGACAGTTGAG  
CCAGTCATTTCTGCATTGGAGAGACTTCTCATACTTTCTTTGAAGACTCATAGAAAGCTGGATCTAGAGCTTTTG  
AATCCTTAATTAGCACAGTAGAAATTAGCTTTCTATGGGAATGCTTTAGTGTTAGCAGTTGACAATTAGGCCCCAT  
ATTCAATCTGAATGGGAACAAAAGTAAATGCAATGATAATATACTGCTAGTTAGAGAAACATGTTAGTTGATTAT  
ACCTGAAATGGATTATTTATCTCATCAGCAAGTATTATTTGAATAAAATGAGAAATGCTTAAGAAAAATTGTTGC  
TCTACAGTAATTTGGTTTTCGAAGAATGGAATGGTAACTATTTTTTCCCATCGTTCTTTTGAGAGAAGGAAGTGTG  
ATGACTGATGATCTTGAAAAGCCCATTTCTGATTGCACGTTGACTGGAATCTTTCTTTGTGCTGTGGACTAGC  
GATGCTGTTTGTAAAATGAAGATTCGGGACTGGCTCATATCTTTTTATCTAACTAGATGTCAGATCTTGAAATCT  
GTATTCCTGAAGCAATTCTGCCACTTGATCGTATTCACAGGGGCCCTGGTAGGCTCCTTTAGAAGGACCATTTCT  
GTTCTAGAGCTTAAGTAGAATTCATTCTTCACTGAAAAAAGTTACTTAAGAAAGCATTTCTTTCTTAA  
TCTCACTCAAATCTGCAGAATTATTTGTAATTAGTAATACAAAATCTGGCCAAAAGGAGACTTGTAATAGCGTA  
AAGTGGTGTCTTATGCTAAACGGTGGAATGTATAGGCAGAGAAGCTCTTGAAAGTTGTCAGATGAGCTGGGCTCA  
CAAGCCTGATTCAAACAGGCTGTGCGTCTCTCACCCTTAATACTGTGCAGCCCAAACCTCCTAGGACTCTTG  
AACATCTGAGCAGTTTTGTGCTTTGAGCCACTTTTGACAAAAATGGCTCCATTTTCCACAGCGTGGTTTTCTT  
AAAATAGTTTTAATGTTTTATAGTCTCATAGTAGTAGTGTGCTTTCTAAGCTATAACAGTCGACTTTATCTCT  
ACTCTGAAAAATCTTGACTTGTGTTGAGTGATATAATATATAAAGGGAGCCTTAATGGATTGGTTTTCTAAT  
TTAATATTTTTGTATTGTCTTGTGATAATTGTTTTAACGGAAGTATTAAGAATTGAGGGTGGAATCTTA  
GAACCAAGTTATTCTTAATAAAATCACCACATGCTTGGACCATGCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2903**

MAEPDYIEDDNPELIRPQKLINPVKTSRHHQDLHRELLMNQKRGLAPQNKPELQKVMKKRKRQVQIKQKEEEAQK  
KKSDLEIELLKRQKLEQLELEKQKLQEEQENAPEFVKVKGNLRRRTGQEVAAQES



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**FIGURE 2904**

CGCGCCAGAGACGCGAGCCGCGCTCCCAACACCCACCCACCGCGCCCTCGTTGCGCTCTTCTCCGGGAGCCAGT  
CCGCGCCACCGCCGCGCCAGGCCATCGCCACCCTCCGCAGCCATGTCCACCAGGTCCGTGTCTCGTCTCCT  
ACCGCAGGATGTTCCGGCGGCCCGGGCACC GCGAGCCGGCCGAGCTCCAGCCGGAGCTACGTGACTACGTCCACCC  
GCACCTACAGCCTGGGCAGCGCGCTGCGCCCCAGCACCCAGCCGAGCCTCTACGCCTCGTCCCCGGGCGGCGTGT  
ATGCCACGCGCTCCTCTGCCGTGCGCTGCGGAGCAGCGTGCCCGGGTGCGGCTCCTGCAGGACTCGGTGGACT  
TCTCGTGGCCGACGCCATCAACACCGAGTTCAAGAACACCCGCACCAACGAGAAGGTGGAGCTGCAGGAGCTGA  
ATGACCGCTTCGCCAATACATCGACAAGGTGCGCTTCTGGAGCAGCAGAATAAGATCCTGCTGGCCGAGCTCG  
AGCAGCTCAAGGGCCAAGGCAAGTCGCGCCTGGGGGACCTCTACGAGGAGGAGATGCGGGAGCTGCGCCGGCAGG  
TGGACCAGCTAACCAACGACAAAGCCCGCGTCGAGGTGGAGCGCGACAACCTGGCCGAGGACATCATGCGCCTCC  
GGGAGAAATTGCAGGAGGAGATGCTTCAGAGAGAGGAAGCCGAAAACACCCTGCAATCTTTCAGACAGGATGTTG  
ACAATGCGTCTCTGGCACGTCTTGACCTTGAACGCAAAGTGGAATCTTTCGAAGAAGAGATTGCCTTTTTGAAGA  
AACTCCACGAAGAGGAAATCCAGGAGCTGCAGGCTCAGATTCAGGAACAGCATGTCCAAATCGATGTGGATGTTT  
CCAAGCCTGACCTACGGCTGCCCTGCGTGACGTACGTACGCAATATGAAAGTGTGGCTGCCAAGAACCTGCAGG  
AGGCAGAAGAATGGTACAAATCCAAGTTTGCTGACCTCTCTGAGGCTGCCAACCGGAACAATGACGCCCTGCGCC  
AGGCAAGCAGGAGTCCACTGAGTACCGGAGACAGGTGCAGTCCCTCACCTGTGAAGTGGATGCCCTTAAAGGAA  
CCAATGAGTCCCTGGAACGCCAGATGCGTGAAATGGAAGAGAACTTTGCCGTTGAAGCTGCTAACTACCAAGACA  
CTATTGGCCGCTGCAGGATGAGATTGAGAAATGAAGGAGGAAATGGCTCGTCACCTTCGTGAATACCAAGACC  
TGCTCAATGTTAAGATGGCCCTTGACATTGAGATTGCCACCTACAGGAAGCTGCTGGAAGGCGAGGAGAGCAGGA  
TTTCTCTGCCTCTTCCAACTTTTCTCCCTGAACCTGAGGGAACTAATCTGGATTCACTCCCTCTGGTTGATA  
CCCACTCAAAAAGGACACTTCTGATTAAGACGGTTGAACTAGAGATGGACAGGTTATCAACGAACTTCTCAGC  
ATCACGATGACCTTGAATAAAAATTGCACACACTCAGTGCAGCAATATATTACCAGCAAGAATAAAAAAGAAATC  
CATATCTTAAAGAAACAGCTTCAAGTGCCTTTCTGCAGTTTTTCAGGAGCGCAAGATAGATTGGAATAGGAAT  
AAGCTCTAGTTCTTAACAACCGACACTCCTACAAGATTTAGAAAAAGTTTACAACATAATCTAGTTTACAGAAA  
AATCTTGTGCTAGAATACTTTTTAAAGGTATTTGAATACCATTAAACTGCTTTTTTTTTTCCAGCAAGTATC  
CAACCAACTTGGTTCTGCTTCAATAAATCTTTGAAAA

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**FIGURE 2905**

MSTRSVSSSSYRRMFGGPGTASRPSSSRSYVTTSTRTYSLGSALRPSTSRSLYASSPGGVYATRSSAVRLRSSVP  
GVRLQDSVDFSLADAINTEFKNTRTNEKVELQELNDRFANYIDKVRFLEQQNKILLAELEQLKGQKSRLGDLY  
EEMRELRRQVDQLTNDKARVEVERDNLAEDIMRLREKLQEEMLQREEAENTLQSFRQVDNASLARLDLERKVE  
SLQEEIAFLKKLHEEEIQELQAQIQEQHVQIDVDVSKPDLTAALRDVRRQYESVAAKNLQEAEEWYKSKFADLSE  
AANRNNDALRQAKQESTEYRRQVQSLTCEVDALKGTNESLERQMREMEENFAVEAANYQDTIGRLQDEIQNMKEE  
MARHLREYQDLLNVKMALDIEIATYRKLEGEESRISLPLPNFSSLNLRETNLDSLPLVDTHSKRTLLIKTVETR  
DGQVINETSQHDDLE

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**FIGURE 2906**

ATGGAGGGAGCAGAACAACCACACAAGGAGCCCATGCCTTGGCTACAGTCAAACCTTCAGCGTGTCTATAAGGCA  
TGTCGTCGCATTTGTGCAAACATTCAGCGGCCTCTTATGTTACAGATGACTCCCCTGGTGGTGAGGAGATGGCA  
TTTCCTCCCTGTGTGCAGGTAAAGACTCAAACACTGATTCAGAGCTGCTGTCCCATCTACTACTGCTCCCATGT  
TCGGCTGGCGCTGAGGAGACACCTTTAGCTGCTGTGACCCCATGGTCACAAAAGCCACAGAGCTCAGAGCTGCTC  
CTCAAAGAACATCCTCCCTGTTTGCTTCTTCTAGCCCTCTCCTTTCTGGTATCCACGGAACCTATCCTATGAT  
GTGACAGAAGAGTCAATTAAGGAATTCCTTAGAGGATTAATTATCAGTGCAGTGCCTTTACCACGTGAACCCAGC  
AATCCAGAGAGGAGAATTCGAGTGGACGTTGCTGATCAAGCACAGGATACAGACAGGGACGATCGTTCTTTTGGC  
CGTGATAGAAATCGGGATTCTGACAAAACAGATACAGACTGGAGGGCTCGTTCTGCCACAGACAGCTTTGATGAC  
TACCCGCCTAGAAGGGGTGATGATAGGTTTGGAGACAAGTATCGAGATCGTTATGATTAGACACAGTCTGGCCGT  
GGGTATTGGTATGAGTATCGGGATGGCCCATGCCGGGATATGGATCGATATGGCTGGCGGGATCGCTATGATGAC  
CGAGGCAGCAGAGACTATGCTAGAGGCTATCATTCTGGATAGGCAGTGGCAGAAGGGCATTGGCAGTGGGTAC  
CCAGGGACAATGACTACAGAGGAGGCAGGGACCGCTATGAAGACCGATACAAACAGATGGGATGATGGGTCTGTGCA  
GCTCCAGAGATGATTTCTCTCGGGATGATTATAGGTATAATGATAGACGTCCCCGTCCCCCTCAAAGACCCAAA  
CTGAATCTAAAGCCTCATAATACTCCTAAGGGAGATGATTCTTCTGCTAGTACCTCCCAGTCCGGTCGAGCTTAT  
TTTGTCTTTGGAGGGGCAAAGCCCGTTGATAGAGCTGCTAGAGAAACAAAAGACACCCAAGCTGGCGAAGTGAA  
GAAACCCAGGAACCGGAGAGGCACCCAAGCTGGCGAAGTGAAGAACTCAGGAACCTGGAACGGTGGAGGACAGGA  
AGTGAGTCATCGCACACTGGGACCTCCGCCACACCCGGCAAAGTCAATCAGACCAGGATGCAGGAAGGAGAGAG  
ACTGAAAAGTCTCTAGAAAAAGAAACACTCAGTAAGGAGGAAGACTGTCACTCTCCAATTCTAAATCTACCAA  
ACTGATCAGCCCCAAAAGAGCTCAGACACACAGCACGAATACCTACAAGTGGTGGGGGAAAAGTAACTCCAGCT  
CAACCGTCTGAGAAAGGACCAGCAAGGAAAGATGAAAATAAAGTAGGTGTGGTGAATGTCCCAAAAGACCACACT  
GGGAACTCTAGCCATGGTCCAGGAGACAGAGGGAACAAAGACCACTGGAAGGAGTCAGATAGGAAAGATGGCAAA  
AAGGAGCATGACTCCAGATCTGCACCTGAGCCAATATGTGAAATACGGAATTTGTGA

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**FIGURE 2907**

MEGAEQPHKEPMPWLQSNFSVSYKACRRICANIQRPLMFTDDSPGGEEMAFPPCVQVKTQTLIQSCCPIYSLIPC  
SAGAEETPLAAVTPWSQKPQSSELLKEHPPCLLLSSPSFWYPRNLSYDVTEESIKEFFRGLIISAVRLPREPS  
NPERRIRVDVADQAQDTRDDRSFGRDRNRDSKTDTDWRARSATDSFDDYPPRRGDDRF GDKYRDRYDSQSGR  
GYWYEURDGPGRDMDRYGWRDRYDDRGSRDYARGYHSWIGSGRRAFSGYPGTMTEEAGTAMKTDTTDGMMGRA  
APEMISLGMIIGIMIDVPRPPQRPKLNLPKHNTPKGDDSSASTSQSGRAYFVF GGAKPVDRAARETKRHPSWRSE  
ETQEPERHPSWRSEETQELERWRTGSESSHTGTSATPGKSQSDQDAGRRETEKSLENETLSKEEDCHSPTSSTK  
TDQPKSSDTQHEYPTSGGKVTPAQPSKGPARKDENKVGVVNVPKDHTGNSSHGPGDRGNKDHWKESDRKD GK  
KEHDSRSAPEPICEIRNL

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## FIGURE 2908

AGAACATCCAGTCATGGATAAAAAATGAGCTGGTTTCAGAAGGCCAAACTGGCCGAGCAGGCTGAGCGATATGATGA  
CATGGCAGCCTGCATGAAGTCTGTAAGTCTGAGCAAGGAGCTGAATTATCCAATGAGGAAAGGAATCTCCTCTCAGT  
TGCTTATAAAAAATGTTGTAGGAGCCCATAGGTCTCTTGGAGGGTCGTCTCAAGTATTGAACAAAAGACGGAGGG  
AGCTGAGAAAAAACAGCAGATGGCTCGCGAATACAGAGAGAAAATTGAGACGGAGCTAAGAGATATCTGCAATGA  
TGTAAGTCTCTCTTTTGGAAAAGTTCTTGATCCCCAGTGTCTTACAAGCAGAGAGCAAAGTCTTCTATTTGAAAAAT  
GGAAGGAGATTACTACCGTTACTTGGCTGAGGTTGCCGTGGGGATGACAAGAAAGGGATTGTGGATCAGTCACA  
ACAAGCGTACCAAGAAGCTTTTGAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACTGGGTCTGGC  
CCTTAACCTTCTGTGTCTTATTATGAGATTCTGAATCCCCAGAGAAAGCCTGCTCTCTTGCAGAACAGCTTT  
TGATGAAGCCATTGTGTAAGTTGATACATTAAGTGAAGAGTCATACAAAGACAGCAGCTAATAATGCAATTACT  
GAGGGACAACCTGACACTGTGGACATCAGATACCCAAGCAGACGAAGGTGAAGCAGGAGAAGGAGTGGAAAATTA  
ACCGGCCCTTCAGCTTTTGTCTGCCTCATTCTAAAATTTACACAGTAGACCATTGTGTCATCCATGCTGTCCAC  
AATAGTTTTTTGTTTATGACTTATGTCAGGTTTATGTTACTTCTATTTGAATTTCTCTATTTCCCATACGGTTT  
TATGTTTAAATATTAGGGGAGGAGAGGAAGTTAACATTTAGGGAGTTATCTGTTTTCATCTTGAGGTGTTCAATAT  
GGGGACGTGGAATTTTTATACAGGTTATAAATGTTTGGCATAGTACTTTTTGGTATATTGTGGCTTACAAGGGCC  
AGTGTTTAAACTGCTTCCATGTCTAAGCAAAGAAAACGCTACATATTTGGTTTGTCTGGTGGGGAATAAAAGG  
GATCATTGGTTCCAGTCACAGGTGTAGTAATTGTGGGTACTTTAAGGTATGGAGCACTTACAAGGCTGTGGTAGA  
AACAGATGCCCCATGGATACCACATGTTAAACCATGTATAATTGTGGAATACTCAATCTCATACTTTGACCACA  
GCTGCAGAAGTGTTCTTTTAGACACAGTTGTGACCCATTTTACTCTGTATAAGGGCAGAAATGGTTCACATTCCA  
TTATTTATAAAGTTACCTGCTGTTAGCATTCAATTTTTTGTCTACACTCATTATTTTGTATTAAATGTTTTAG  
GCAACCTAAGAACAATGTAAAAGTAAAGATGCAGTAAAAATGAATTGCTTGGTATTCACTACTTCATGTATATC  
AAGCACAGCAATAAAACAAAAACCCATGTATTTAACTTTTTTTAGGTTTTTTGCTTTTGTGATTTTTTTTGATAC  
TTGCCCTAACATGCATGTGCTGTAAAAATAGTTAACAGGGAAATAACTTGAGATGATGGCTAGCTTTGTTTAAATGT  
CTTATGAAATTTTCATGAACAATCCAAGCATAATTGTTAAGAACACACGTATTAAATTCATGTAAGTGGAAATAAA  
CGTTTTATGAATGGACTTTTCACTACTTTCTCTACAGCTTTTCATGTAAATTAGTCTTTTGGTCTGAAACTTC  
TCTAAAGGAAATGTACATTTTTTTGAAATGTATTCTTATTCTCTCTTGGCAGCTAATGGGCTTTTACCAAGTT  
TAAACACAAAGTTTATCATAACAACAAAAATACTACTAATAATACTACTGTTTCCATGTCCCAGATTCCCTCTC  
TTCTCCCCACCCTGAAAAAATCAGTTCTTATTTTTCTGGGAGAGGGGAGATTGATTGGAATAAAATGTAAT  
ATGTTCCATTGAAATATTGGTAAATGGCATTCTTAACTTAGGAAGCCACAGTGTCTTGGCCCATCATGACAT  
TGGGTAGCATTAACTATAAGTTTGTGCTTCAAATAACTTTTTGGTTTTTAACAATTTCTTGATACTCTTATAG  
CCTGCCCTCAGTGTTGATCCTTTATTCTTTCTATCTGTCTAGGTGCACAAGATTACCTCCTTTTTTAGCCTTCTG  
TCTTTCTTGTACCAACCATTCCTACTTGGTGGCCATGTACTTGGAAAAAGGCCGCATGATCTTCTGGCTCCAC  
TCAGTGTCTAAGGCACCCTGCTTCTTTGCTTGCATCCACAGACTATTTCCCTCATCCTATTTACTGCAGCAAA  
TCTCTCCTTAGTTGATGATACTGTGTTTATCTCCCTTTAAACCTTACCTATCCTGAATGGTCTGTCTATTGTCTG  
CCTTTAATCCTTCTCTTTCTCTTCTCTTCTCTTCTCTTCTCTTCTCTTCTCTTCTCTTCTCTTCTCTTCTCT  
ACAAAATATTTCTGTCAGTACTTTGCAGAAAAACACCAACAAAAATGCCATTTTAAAAGAGGTGTATTTTTTATTT  
CAGAATGTAAGCTCCTCAAGAACAGGGACAATGTTTTCTGTATGTTCTATTGTGCTTAGTACACTGTAAATGCTC  
AATAAATATTGATGATGGGAGGCAGTGAATCTTGATAAGGGTGAGAACTGAAATCCC

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**FIGURE 2909**

GCTCGGAGCCTCGGCGGACCTTGCTGCCTCTGTCTCTTTAACGCGAGAGGAAGCGATGCAGAGGGGTGGAAAATG  
GCAGAGCTGCAGATGTTACTAGAGGAGGAGATCCCGTCTGGCAAGAGGGCGCTGATCGAGAGTTACCAGAACCTG  
ACTCGGGTGGCAGACTACTGTGAAAACAACATACATACAGGCTACAGACAAGAGAAAAGCTTTAGAGGAGACCAA  
GCCTATACAACCCAACTCTAGCTAGTGTGCTTATCAAATAAATGCATTGGCCAACAATGTACTCCAGTTGCTG  
GATATCCAAGCCTCTCAGCTTCGGAGAATGGAGTCTCCATCAATCATATCTCACAGACTGTGGATATTCATAAG  
GAGAAAGTGGCAGAGAGAGATTGGTATTTTGACAACAAATAAGAATACATCAAGAACTCACAAAATAATAGCA  
CCTGCGAATATGGAGCGCCCTGTAAGGTATATTGGGAAACCTATCGATTACACAGTTCTGGATGATGTGGGCCAT  
GGTGTCAAGTGGCTAAAAGCCAAGCATGGAAATAACAGCCTGCAAGAACTGGCACACTGTGAGAACAATCCT  
CCTACTCAGAAACCGCCAAGTCTCCCATGTCAGGCCGGGGAACACTGGGACGGAATACTCCTTATAAAACCTG  
GAACCTGTTAAACCCCCAACAGTTCCTAATGACTATATGACCAGTCTGCTAGGCTTGGAAGTCAGCATAGTCCA  
GGCAGGACAGCATCTTTAAATCAGAGACCAAGGACACACAGTGGAAAGTAGTGGAGGAAGTGGAAGTCGAGAAAAC  
AGTGGTAGCAGTAGTATTGGCATTCCCATTTGCTGTGCCTACACCTTCGCCACCCACTATTGGACCAGAAAACATT  
TCTGTCCCTCCTCCTCTGAGCTCCACCAGCACCACCTCTGGCACCCTCTCCCAGTGAGCACTGTGATAGCA  
GCCCCGGGCTCAGCTCCTGGTTCCAGTATGGCACAATGACCAGGCAGATATCTCGACACAACCTCTACTACTCT  
TCGACATCTTCTGGTGGATACAGACGAACTCCCTCTGTGACTGCTCAATTTCTGCTCAGCCTCATGTTAATGGA  
GGTCCACTTTATTCTCAAATTTCAATTTCTATTGCTCCACCCCTCCCCCTATGCCTCAGTTGACTCCACAGATA  
CCTCTCACAGGCTTCGTGGCCAGGTGCAGGAAAACATTGCTGATAGTCCAACCTCCACCGCCACCACCTCCACCA  
GATGACATTCCCATGTTTGATGACTCTCCACCTCCCCACCACCACCAGTGGATTATGAAGATGAGGAGGCT  
GCAGTAGTTCAGTATAATGATCCATATGCAGATGGGGATCCTGCTTGGGCCCCCAAGAATTATATTGAGAAAGTT  
GTTGCAATATATGATTATACAAAAGACAAGGATGATGAGCTGTCATTTATGGAGGGTGCAATCATTATGTTATA  
AAGAAGATGATGATGGCTGGTATGAAGGAGTCTGCAATCGAGTGAAGTGGTCTGTTCCCTGGGAACATATGTTGAA  
TCAATCATGCACTATACTGATTAAATTTTTTTTTTCTTTTGAAGTAGATTCTTATTACTCAGTCATACTGTGGGA  
CTATTATGGTTAACAGAACTGTCTTAATATGTTTTAAATGTGCCATATTTTCAGAACATGCTGTTTTATTGGT  
AAATTGAATGTCTACCTGTAAGCATAAATCTTTGAGGCAGTTTATGTATTGCTGAATAGCAATTTATACAAGAAG  
CTGTCCATAACTGATTATGCTTATGTACTTACTTACACATTTTTAACTTTATGACCAGCCTAAATATTCTGGGGG  
AAGTGGGGTATAATATTTAACGAATCATGATTGAGATTGTACCATTACATGTTTCAGTGCAGCATGGTTACTAAC  
GCTATGTCAGACTAATATTAATAATCAGAAAATTTAAATGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
ATTTAAAAAAATACTGTTTGTGTTAAAGCATGCATAAAAATTTATGTATTGAAATATACTTAAAAATTCAGATG  
CTTCCCATTTGTGTAATATTTACCTGGAGGACTCGTACTTAGGTGTCTTAACGTGAATTGAGTCTCCAAGGTCTC  
CATGTGAAACAAGCAAAAAGAGAATTATCTGTAATGTTGTAATTTGTACCTAAGTTTTTTAATGAGTGAAATTTG  
CATTATAAACCTTTTTCCATTATAAATACATAAAGTGAACCAAAGGTTTTGTCTTTTCCTTCACTGATTTGCTTT  
AAAAAAATAAAAGATAATGATTTATTG

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**FIGURE 2910A**

GGGGAGGCCATTTTCCGTTTCTGGGAGGAGTGAGGGGCAACGGGTCGGAGAAAAAGGAAAAAGAAGGGCTCAGC  
GCCTCCCCGCCGGCCGTGGACAGAGGGGCACAGTTTCGGCAGGCGGGTGAGGTCGCTGAGGGCCCGCCGAGAT  
GTTTTCTTGTGAGCACGGTGCAACCCAGGTTACAGTTCTCTGAGTCATCTCATCAATGCCTTCCATACACC  
AAAAAACACTTCTGTTTCTCTCAGTGGAGTGTCTGTTCTCAAACCAGCATCGAGATGTAGTTCTGAGCATGA  
GGCTCCCAGCAGTGAGTGTATGTTCACTGACTTCTGACGAAGCTTAACATTGTTTCAATTGGCAAAGGAAAAAT  
ATTGAAGGGTACAGATCCATGTTTCATGGAGCCAGCAAAAAGGATGAAGAAGAGCTTGGACACAACCGATAACTG  
GCACATCCGTCAGAACCTTCTCCCTCTCAATCCCTCCTTCACTTAACCTTAAGGGACCTTGGATTATCTGAACT  
AAAAATTGGACAGATTGATCAGCTGGTAGAAAATCTACTTCTGGATTTTGTAAGGCAAAAACATTTCTTCCCA  
TTGGCATAACATCCCATGTCTCTGCACAATCCTTCTTTGAAAATAAATATGGTAACCTTAGATATATTTAGTACATT  
ACGTTCTCTTGTCTGTATCGACATCATTCAAGAGCTCTTCAAAGCATTGTTTCAGATCTTCACTACTGGCCAGT  
TTTCATACAGTCTCGGGGTTTTAAACTTTGAAATCAAGGACACGAGCTCTCCAGTCTACCTCCGAGAGATTAGC  
TGAAACACAGAATATAGCGCCATCATTGTTGAAGGGGTTTCTTTTGGGGACAGAGGATCAGATGTTGAGAGTTT  
GGACAAACTCATGAAACCAAAAATATACCTGAAGCTCACCAAGATGCATTTAAACTGGTTTTGCGGAAGGTTT  
TCTGAAAGCTCAAGCACTCACACAAAAAACCAATGATTCCCTAAGGCGAACCCGCTCTGATTCTCTCTGTTCTGCT  
GCTATTCTGGCATTATGGAATTCTAAAAAACCCATTTTATCTGTCTCGCTTCCGGACAACAACAGGGCTTGATTC  
TGCAGTAGATCCTGTCCAGATGAAAAATGTACCTTTGAACATGTTAAAGGGGTGGAGGAAGCTAAACAAGAATT  
ACAGGAAGTTGTTGAATTCTTGA AAAATCCACAAAAATTTACTATTCTTGGAGGTAACTTCCAAAAGGAATTCT  
TTTAGTTGGACCCCGAGGACTGGAAAGACACTTCTTCCCCGAGCTGTGGCGGAGAGCTGATGTTCCTTTTTA  
TTATGCTTCTGGATCCGAATTTGATGAGATGTTTGTGGGTGTGGGAGCCAGCCGATCAGAAATCTTTTTAGGGA  
AGCAAAGGCGAATGCTCCTTGTGTATATTTATTGATGAATTAGATTCTGTTGGTGGGAAGAGAATTGAATCTCC  
AATGCATCCATATTCAAGGCAGACCATAAATCAACTTCTTGCTGAAATGGATGGTTTTAAACCCAATGAAGGAGT  
TATCATAATAGGAGCCACAACTTCCAGAGGCATTAGATAATGCCTTAATACGTCCTGGTCTGTTTTGACATGCA  
AGTTACAGTTCCAAGGCCAGATGTAAAAGGTGCAACAGAAATTTGAAATGGTATCTCAATAAAATAAAGTTTGA  
TCAATCCGTTGATCCAGAAATTATAGCTCGAGGTACTGTTGGCTTTTCCGGAGCAGAGTTGGAGAATCTTGTGAA  
CCAGGCTGCATTAAGAGCAGCTGTTGATGGAAGAAATGGTTACCATGAAGGAGCTGGAGTTTCCAAAGACAA  
AATTCTAATGGGGCTGAAAGAAGAGTGTGGAATTGATAACAAAAACAAACCATCACAGCATATCATGAATC  
TGGTCATGCCATTATTGCATATTACACAAAAGATGCAATGCCTATCAACAAAGCTACAATCATGCCACGGGGGCC  
AACACTTGGACATGTGTCCCTGTTACCTGAGAATGACAGATGGAATGAACTAGAGCCAGCTGCTTGCACAAAT  
GGATGTTAGTATGGGAGGAAGAGTGGCAGAGGAGCTTATATTTGGAACCGACCATATTACAACAGGTGCTTCCAG  
TGATTTTGATAATGCCACTAAATAGCAAAGCGGATGGTTACCAAATTTGGAATGAGTGAAGAGCTTGGAGTTAT  
GACCTACAGTGATACAGGGAACTAAGTCCAGAAACCAATCTGCCATCGAACAAGAAATAAGAATCCTTCTAAG  
GGACTCATATGAACGAGCAAAACATATCTTGAAAACCTCATGCAAGGAGCATAAGAATCTCGCAGAAGCTTTATT  
GACCTATGAGACTTTGGATGCCAAAGAGATTCAAATTGTTCTTGAGGGGAAAAAGTTGGAAGTGAGATGATAACT  
CTCTTGATATGGATGCTTGTGTTTTATTGCAAGATACAAGTAGCATTGCAGTAGTCTACTTTTACAACGCTT  
TCCCCTCATCTTGTATGTGGTGAATTGAAGGGTGTGAAATGCTTTGTCAATCATTTGTACATTTATCCAGTTT  
GGGTTATTCTCATTATGACACCTATTGCAAATTAGCATCCCATGGCAAATATATTTGAAAAATAAAGAACTAT  
CAGGATTGAAACAGCTCTTTTGGAGAAATGTCAATTAGTTATTAAGTTGAAAGTAATTAATGATTTTATGTTTGG  
TTACTCTACTAGATTTGATAAAAATTGTGCCTTTAGCCTTCTATATACATCAGTGGAACTTAAGATGCAGTAAT  
TATGTTCCAGATTGACCATGAATAAAATATTTTTTAACTAAATGTAGAGAAGTTGGGATTAAAGCAGTCTCGG  
AAACACAGAGCCAGGAATATAGCCTTTTGGCATGGTGCCATGGCTCACATCTGTAATCCCAGCACTTTTGGAGGC  
TGAGGCGGGTGGATTGCTTGGAGCCAGGAGTTCGAGACCAGCCTGGCCAACGTGGTGAAACGCTGTCTCTACTAA  
AATACAAAAAATAGGGCTGGGCGCGGTTGCTCACGCCTGTAATCCCAGCACTTTTTCAGAGGCCAAGGCGGGCAA  
ATCACCTGAGGTCAAGAGTTTGGAGCCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAACATGCAAAAAAT  
TACCTGGGCATGGTGGCAGGTGCTTATAATCCCAGCTACTCTGGGGGCCAAGGCAGGAGAAATTGCTTGGCCTGG  
GAGATGGAGGTTGCAGTGAGCTGAGATCATGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCTGCCTCAA  
AAAAAATTAATAAATTTAAATACAAAAAATAAGCCAGGTGTGGGTGCATGCCTGGAAATCCCAGCTACTT  
GAGAGGCTGAGGCACGAGAATTGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCCAAGATCACAGGAGCCACTG  
CACTCCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAAAAAAATAAATAAATATTATAACCTTTTCAAGAAAT

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**FIGURE 2910B**

GCTGTGTGCATTTTCATGTTCTTTTTTTTAGCATTACTGTCACCTCCCTAATGAAATGTACTTCAGAGAAGCAG  
TATTTTGTAAATAAATACATAACCTCATTCTGAATAATGTCCCTCATTTTGACTATAACTGTGCTTGTTTCAA  
AAGCAAATTAAACAAAATCTCAGTCCCTCCGAAGTGAACCTTGTGTTACCCTGCGTCAGAAATGCCAAGTTG  
TGTTTACTTTTCATTAGATTTTGTGAATATGAACATGCTGTTATAGGATCTACAGATGAATATTTAACTCAATA  
GAAAAATTATTTAGAACACATTGTATTGGTATTACAACCAGATTATATTCTTGACGTTGACTTCATTAAAAATT



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**FIGURE 2911**

ACCGCCATCTTCCAGTAATTCGCCAAAGTGACGAACACAAAGAGAAAGAGGAGGGGCACCCGATATATGTTCTTT  
AGGCCTTTTAGAAAACATGGAGTTGTTCCCTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAGAC  
ATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACAAT  
GTTACCCAGCATGCTGTTGGCATTGTTGTAAACACACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATGTG  
TTTATTGAGCACATTAAGCACTCTAAGAGCCGAGACAGCTTCCTGAAACGCATGAAGGAAAATGATCAGAAAAAG  
AAAGAAGCCAAAGAGAAAGGTACCTGGGTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTTGTG  
AGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCTATGAATTCATGGCATAATAGGTGTTAAAAAAA  
AATAATAAAGGATCTCTGGGCTAC

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**FIGURE 2912**

VTNTRKRRRGTRYMFFRPFRKHGVVPLATYMRIYKKGDIVDIKGMGTIVQKGMPhKCYHGKTGRVYNVTQHAVGIV  
VNTQVKGKILAKRINVFIEHIKHSKSRDSFLKRMKENDQKKKEAKEKGTWVQLKRQPAPPREAHFVRTNGKEPEL  
LEPIPYEFMA

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FIGURE 2913A

CACTGCTCTGACTGCGTCTCCCCAGGCTGAAGTGTCTCAGGTTTCATGTGGATTGCCCAGTAATGGATGGCT  
CCACCGAGGCCAGGTTGGGGAAGTTCAGCCTCGAGGACACTAGGGGACGAAAACTTCAAAAAGAAGACTCTTTT  
TATTAATATTTTGGCGTTCTTTTTGGAGAGGAACCTTTGGGATGTAGCCTTTACCTGTTTCCTGAATTTGACATC  
CAAAAAGCCTTTTGGAAAACACCATTCTAAATTTATCCTGTCTGAATCATCATCGCTTCTGATAGATGCAGTTG  
CTTGCTGACATCGTGATCTTTGATTTTGTACAACGCTATTTGGGCTAACCTTTGGGATTTTACTTTGTGCTTAGA  
ATTTGAAAGTAGTATTCAATTGGAAAGAGACTCCAAGAAAATACTCGAAGACATCAAAAGCTGGATTTCGAGGGTAT  
AACGTGTTTTGTTTTGTTTTTAAATTAGAAAAATAAGGAATTGCAGTGTGATTTTCTTTCCCCCTTTAACTTAG  
AGGAACGAGGATTATACAGAAATTTGAAATTTCAACAAGAAAACTTAAGCTTCTTGGATTCCCACGTCAAAGG  
AAAGTTTCAAGCTTTCAGAAGGAGTTCTCACTCGAAGATAAAGAACAGCTCGCTAACCCAGAAAGAGGAATCGAT  
GCTCAGCTTTTAGTTGCACTTCTCTAAAGTTGCAGAATTAAGACAAATCTTTGAACCAAGAAGAAAGAATTCTTA  
GAAATGAAAAGAAAAGAAAGAATTGCCAGGCGCTGGAAGGGATTGAAATGACACTCAGCCCATCTCTTGCAG  
AGCTGCACAGGATTGGTGACTCACCGCTGCTGGAGGAAGACACCCCTCGATACATGAGAGCCAGCGACCCTGCC  
AGCCCCACATCGGCCGATCAAAATGAAGAGGAGGAACTTCTGATTCTTCTCTAGAAAAGCAAACCTCGATCCAAA  
TACTGCACAGAAACCTCCGGTGTCCACGGTGACTCACCTATGGTTCCGGTACCATGGACACCCACAGTCTGGAG  
TCCAAAGCCGAAAGAATTGCAAGGTACAAGCAGAAAGAAGGCGACAGCTGCGAGAGAAGTATGGGCTGACTCTG  
GATCCCCGAGGCCGACTCCGAGTATTTATCCCGCTATACCAAGTCCAGGAAGGAGCCTGATGCTGTCGAGAAGCGG  
GGAGGAAAAAGTGACAAACAGGAAGAGTCAAGCAGAGATGCTAGTTCTCTGTACCCCGGGACCGAGACGATGGGG  
CTCAGGACCTGTGCCGGTGAATCCAAGGACTATGCCCTCCATGTGGGTGACGGCTCTTCCGACCCGGAGGTGCTG  
CTGAACATAGAAAACCAAAGACGAGGTCAAGAGCTGAGTGCCACCCGGCAGGCCCATGACCTGTCCCCAGCAGCC  
GAGAGTTTCTCGACCTTCTCTTCTCTGGGCGAGACTCCTCTTCACTGAAGTGCCACGGTCCCCAAGCAGCC  
CACAGCTCCTCCTGACGAGGACGCTCCCGGAGCCCCCTCTTTGGTGACCCACAGCTATCCCTGAGGCCCGA  
CCCAGTACAGGGAACCCAAACATGAGTGGTTTCTCCAGAAAGATTCCGAAGGGGACACACCTTCACTTATCAAC  
TGGCCTTCCAGAGTTAAAGTTAGAGAAAAATTGGTGAAAGAGGAAAGTGCTCGAAACAGCCCTGAACCTCGCCTCA  
GAGTCCGTAACCTCAGAGGAGACACCAGCCAGCGCCAGTCCATTACGTGTCAATTCAGTCTGAGCACTCAGCCTTT  
GATAGGGTCCCCAGCAAGGCAGCAGGCTCTACACGACAGCCAAATCCGTGGCTATGTCCAACCCGAGATACCGGT  
CACACCGCCAAGCTAGTGACGCCAGAAACCCAGAAAATGCATCTGAGTGTAGCTGGGTAGCATCAGCCACCCAG  
AATGTCCCCAAACCTCCCAGCTTGACGGTTCTAGAAGGTGACGGAAGGGATAGCCAGTTCTCCATGTCTGCGAG  
TCAAAAGCAGAAGAAGAAGAAGGGGAAGGAGAAGGAGAAGAAAAGAAGAAGATGTGTGCTTCACTGAAGCTCTC  
GAGCAAAGCAAGAAAACCTACTGGCTTTGGAGGGTGTAGGGTGTAGTGAAGCCAGAAAGATCCCTCTAGAAAT  
GAGGACTTTGGTAAGCCTGTGTGAGCACAGTCACTTAGAGCATCAGAAGGAAGTGGAAAACGTGGCACAACCC  
CCTCAAGCTCCGACACCAGCCACTGAGAGGACAGGACAGGAGCGAGATGGTTCTCTACATTCAAAGTGAGCCTGTG  
TCCCAAGACGCCAAACCAACTGGTCACAACAGGGAAGCCTCGAAAAAGCGCAAGGTCCGTACCCGCTCTCTGTCA  
GATTTACAGGCCCCCTCAGCTCCAGGCCTTGAAGTATAAGGACCCAGCTTCCAGGAGAGAGCTGGAGCTGCC  
AGCTCCAAGACCGAAGGGCCTTATGGGGAGATCAGCATGCTGGACACAAAAGTCTCTGTGCGCCAGCTCCGAAGT  
GCGTTCTGCGCATCTGCCAACGCTGCAGGAGACCTGAAGTCAAATCACGGGTGGAGAGGTGGGCTGAAGGACCT  
GGCTTGCCACCGGTGTGGAACGGGAGAGAGGGTCCCGGAAACCAAGACGCTATTTTTCTCTGTTGAAAGTAGA  
AAAACCTCCGAGAGATTTAGAACCCAACCTATAACTTCAGCAGAACGAAAGGAATCGGATAGGTGCACTTCACAT  
TCAGAAACGCCAACTGTGATGATGAAGAAAAGGTGGATGAACGAGCCAAGCTGAGCGTCGCCGCCAAGAGGTTG  
CTTTTCAGGGAGATGGAAAAATCTTTTGATGAACAAAATGTTCCAAAGCGACGCTCAAGAAACACAGCTGTGGAG  
CAGAGGCTACGCGTCTGCAGGACAGGTCCCTCACCCAGCCCATCACCAGTGAAGAGGTGGTATCGCAGCCACT  
GAACCTATCCCCGCTTCTGTGTTCTGGGGGACCCACCCCTGTAATGGCGAGACTTCTTAGCCCCACTGTAGCTAGG  
AGCGCTGTGACGCTGCCAGATTGCAGGCCTCTGCTACCAAAAAGGCCTTAGCCAAGGACCAGACAAATGAGGGC  
AAAGAGCTTGCTGAGCAAGGAGAACCTGATTCTCCACTCTAAGCTTGGCCGAAAAGTTGGCCTTGTTTAAACAA  
TTGTCCCAGCCAGTCTCAAAGCGATTCTACCCGGAACAGAATAGACACGAGACAGAGGAGAATGAACGCTCGC  
TATCAAACCTCAGCCAGTCACACTGGGAGAGGTGGAGCAGGTGCAGAGTGGAAAGCTCATTCTTTCTCACCTGCC  
GTGAACACATCAGTGTCTACCGTAGCATCCACGGTTGCTCCAATGTATGCCGAGATCTTCGCACAAAGCCACCT  
CTTGACCACAATGCAAGTGCCACTGACTATAAGTTTTCTTCTTCAATAGAAAATTCGGACTCTCCAGTTAGAAGC  
ATTCTGAAATCGCAAGCTTGGCAGCCTTTGGTAGAGGGTAGCGAGAACAAGGAATGTTGAGAGAATATGGAGAG

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**FIGURE 2913B**

ACAGAAAGCAAGAGAGCTTTGACAGGTCGAGACAGTGGGATGGAGAAGTATGGGTCCCTTTGAGGAAGCAGAAGCA  
TCCTACCCCATCCTGAACCGAGCCAGGGAAGGAGACAGCCATAAGGAATCTAAATATGCTGTTCCCGAGAAGAGGA  
AGCCTGGAACGGGCGAACCCTCCCATCACCCACCTCGGGGATGAACCGAAGGAATTTCCATGGCTAAAATGAAT  
GCACAAGGAACTTTGGACTTGAGGGACAGGCTGCCCTTTGAAGAGAAGGTGGAGGTGGAGAATGTTATGAAAAGG  
AAGTTTTCTACTAAGAGCGGCAGAGTTCCGGGAGCCCACTTCCGAGCAGACGGGGACAGCTGCTGGGAAAATATT  
GCTCAAACCACAGCCCCGTGTCTGGAAGCCCCAGGATTCTTCGGAACAGCCACAGGAGAAGCTCTGCAAGAAT  
CCATGTGCGATGTTTGCTGCTGGAGAGATCAAACGCCGACAGGGGAGGGCCTTCTTGACTCACCCAGCAAAACC  
ATGTCTATTAAAGAAAGATTGGCACTGTTGAAGAAAAGCGGGGAGGAAGATTGGAGAAACAGACTCAGCAGGAGG  
CAGGAGGGCGGCAAGGCGCGGCCAGCAGCCTGCACACCCAGGAAGCAGGGCGGTCCCTCATCAAGAAGCGGGTC  
ACAGAAAGTCGAGAGAGCCAAATGACGATTGAGGAGAGGAAGCAGCTCATCTACTGTGAGAGAGGAGGCCTGGAAG  
ACGAGAGGCAGAGGAGCGGCCAACGACTCGACCCAGTTCACTGTGGCTGGCAGGATGGTGAAGAAAGGTTTGCGG  
TCACCTACTGCCATAACCCCACTAGCCTCACCCATTTGCGGTAAAACAAGAGGCACCACACCCGTTTCCAAACCC  
CTGGAAGATATCGAAGCCAGACCAGATATGCAGTTAGAATCGGACCTGAAGTTGGACAGGCTGGAAACCTTTCTA  
AGAAGGCTGAATAACAAAGTTGGCGGGATGCAGAAACGGTGCTCACTGTACCGGCAAATCTGTGAAGGAGGTG  
ATGAAGCCAGATGATGATGAAACCTTTGCCAAATTTTACCGCAGCGTGGATTATAATATGCCAAGAAGTCTGTG  
GAGATGGATGAGGACTTCGATGTCATTTTCGATCCTTATGCACCCAAATTGACGCTTCCGTGGCCGAGCACAAG  
CGGGCAGTTAGGCCCAAGCGCCGGGTTCAAGCCTCCAAAACCCCTGAAAATGCTGGCGGCAAGAGAAGATCTC  
CTTCAGGAATACACTGAGCAGAGATTAAACGTTGCCCTTCATGGAGTCAAAGCGGATGAAAGTAGAAAAGATGTCT  
TCCAACTCCAACCTTCTCAGAAGTCACCCCTGGCGGGTTTAGCCAGTAAAGAAAACCTCAGCAACGTCAGCCTGCGG  
AGCGTCAACCTGACGGAACAGAACTCTAACAACAGCGCCGTGCCCTACAAGAGGCTGATGCTGTTGCAGATTAAA  
GGAAGAAGACATGTGCAGACCAGGCTGGTGGAACTCGAGCTTCGCGCTCAACAGTGGGGACTGCTTCCTCCTG  
CTCTCTCCCACTGCTGCTTCTGTGGGTAGGAGAGTTTGCAAACGTCATAGAAAAGGCGAAGGCCCTCAGAACTT  
GCAACTTTAATTGAGACAAAGAGGGAACCTTGTTGTAGAGCTACTTATATCCAAACCATTGAAGAAGGAATTAAT  
ACACACACTCATGCAGCCAAAGACTTCTGGAAGCTTCTGGGTGGCCAAACCAAGTTACCAATCTGCTGGAGACCCA  
AAAGAAGATGAACCTCTATGAAGCAGCCATAATAGAACTAAGTGCATTTACCGTCTCATGGATGACAAACTTGTT  
CCTGATGACGACTACTGGGGGAAAATTCGGAAGTCTCCCTTCTGCAACCCAAAGAGGTACTGGTGTGTTGATTTT  
GGTAGTGAAGTTTACGTATGGCATGGGAAAGAAGTCACATTAGCACAAACGAAAATAGCATTTACGTGGCAAAG  
CACTTATGGAATGGAACCTTTGACTATGAGAACTGTGACATCAATCCCTGGATCCTGGAGAATGCAATCCGCTT  
ATCCCCAGAAAAGGACAGGGGCGGCCGACTGGGCGATATTTGGGAGACTTACTGAACACAATGAGACGATTTTG  
TTCAAAGAGAAGTTTCTGGATTGGACGGAACGAAAGAGATCGAATGAGAAGAACCCCGGGGAACCTTGCCAGCAC  
AAGGAAGACCCAGGACTGATGTCAAGGCATACGATGTGACACGGATGGTGTCCATGCCCCAGACGACAGCAGGC  
ACCATCCTGGACGGAGTGAACGTCGGCCGTGGCTATGGCCTGGTGGAAAGGACACGACAGGAGGCAGTTTGAGATC  
ACCAGCGTTTCCGTGGATGTCTGGCACATCCTGGAATTCGACTATAGCAGGCTCCCCAAACAAAGCATCGGGCAG  
TTCCATGAGGGGGATGCCTATGTGGTCAAGTGAAGTTTCACTGAGTGTGAGCAGGAGTGGGAAGTCCGCAAGGGA  
GAGCACTCGGTGAGGGCAGCCGGCAAAGAGAAGTGCGTCTACTTCTTCTGGCAAGGCCGGCACTCCACCGTGAGT  
GAGAAGGGCACGTCGGCGCTGATGACGGTGGAGCTGGACGAGGAAAGGGGGGCCAGGTCCAGGTTCTCCAGGGA  
AAGGAGCCCCCTGTTTCTGTCAGTGTTTCCAGGGGGGGATGGTGGTGCCTCGGGGAGGCGGGAAGAGGAAGAA  
GAAAATGTGCAAAGTGAGTGGCGGCTGTACTGCGTGCGTGGAGAGGTGCCCGTGGAAAGGGAATTTGCTGGAAGTG  
GCCTGTCACTGTAGCAGCCTGAGGTCCAGAACTTCCATGGTGGTGCTTAACGTCAACAAGGCCCTCATCTACCTG  
TGGCACGGATGCAAAGCCCAGGCCACACGAAGGAGGTGGAAGGACCGCTGCGAACAAGATCAAGGAACAATGT  
CCCCTGGAAGCAGGACTGCATAGTAGCAGCAAAGTCACAATACACGAGTGTGATGAAGGCTCCGAGCCACTCGGA  
TTCTGGGATGCCCTTAGGAAGGAGAGACAGGAAAGCCTACGATTGCATGCTTCAAGATCCTGGAAGTTTAACTTC  
GCGCCCCGCTGTTTCATCCTCAGCAGCTCCTCTGGGGATTTTGACAGCCACAGAGTTTGTGTACCTGCCCCGAGCC  
CCCTCTGTGGTCAGTTCCATGCCCTTCTGTCAGGAAGATCTGTACAGCGCGCCCCAGCCAGCACTTTTCTGTGT  
GACAATCACCCAGAGGTGTACCTCTGGCAAGGCTGGTGGCCATCGAGAACAAGATCACTGGTTCGCCCCGCATC  
CGCTGGGCTCCGACCGGAAGAGTGGATGGAGACTGTGCTCCAGTACTGCAAAGGAAAAATCTCAAGAAACCA  
GCCCCAAGTCTTACCTTATCCACGCTGGTCTGGAGCCCCTGACATTACCAATATGTTTCCAGCTGGGAGCAC  
AGAGAGGACATCGCTGAGATCACAGAGATGGACACGGAAGTTTCCAATCAGATCACCTCGTGGAAAGACGTCTTA

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**FIGURE 2913C**

GCCAAGCTCTGTAAAACCATTTACCCGCTGGCCGACCTCCTGGCCAGGCCACTCCCGGAGGGGTCGATCCTCTG  
AAGCTTGAGATCTATCTCACCAGCAAGACTTCGAGTTTGCACTAGACATGACGAGGGATGAATACAACGCCCTG  
CCCGCCTGGAAGCAGGTGAACCTGAAGAAAGCAAAAGGCCTGTTCTGAGTGGGAGACGCCAGAGGAGCCTCACG  
GTCACGTCCAACAACACCCTGCACCAGGGAAATGGATATATATTTTTGGACTGGTGTTTTTCACAAAGTATTTT  
TCAATCAGAGTTTTTCAGAACCTGACATTGTTAAAGATACTGCTTGTCCCGGAGTTGTGTATTTTGTAAATGTTCA  
AGGGAACCTGTTGGAAACTTCTTCCACCATTAGGAGGTTATCAGAATTAATAAAAGTATCTGTTATGTGCACT  
TAAGCCGCAGCTGCTATAGATAGCACTGCCTTCTTGTTCCAGCTAGGCAATGCCTTTTTTTTTTTTTTTGAAGC  
AGTTCTCTTTATAAAAGTGTTATTTTGATAGTTTGTGGATTCTAAAAATATATATATATTTATATAAACACCATATA  
AGTCAAATATGTATTTAACAAAGCAATATGTATTCACTTTCAAGATTTGTTTTGGTGTCAAAATAACATGA  
AAAGGTAGATGGAGTTGCTTCTGTTGAATTAGCTCTGCCACCAATATGTATCTTCATACACGTTTGGAAATGTTT  
CCTGCAGCATTAGGTATGACTTGTCTGAGTACGCTTCCGGTGCTAAAATGAACAAAGAATTTGTACTTAATGG  
CATGGACTCTGGAGAATCTATGCGAATCAACCTTCTACCTTAATATCTCCCCAAAATGTATAGTGCCTTGTTT  
TTATGTACAGTTTATATACAGAAAAGTTTGCTCTGCATTTTTTGATGATGGTTTGGAACATTATCTACAATTTTAC  
TCTCAAATAGTCAAAATAAAAACATCTCAATTTCTAATACCGTTGTAAACAGTACACATGTCATTTTGTGATAT  
AGGACTCCCAAATAAAAGTATCAGAATAAACACAACAATTAACCTGGT

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**FIGURE 2914**

CAGACGCTGCTGCCGAGGAAAAACCTTGTATTATTAGGCATGCTCAACCCACCGTGTCTTCGACATTGCCATCG  
ACGGCGAGCCCTTGGGCCGCGTCTCCTTTTAGCTGTTTGCAGACAAGTTCCCAAAGACAGCAGAAAAATTTTCGTG  
CTCTGAGCACTGGAGAGAAAGGATTTAGTTATAAGGGTTCCTGCTTTCACAGAATTATTCCAGGGTTTATGTATC  
AGGGTCGTGACTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTTGAAGATGAGAACT  
TCATCCTAAAGCATAACAGGTCCTGGCATCTTGTCCATGGCAAATGCTGGACCCAAACACAAATGGTTCACAGTTTT  
TCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTCTTTGGCAAAGTGAAAGAAGGCATGAATA  
TTATGGAGGCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACTGTGGAC  
AACTCGAATAAGTTTGAAGTTTGTGTTTTATCTTAACACCAGACCATTCTTCTGTAGTTCAGGAGAACACCCCTTC  
CACCCCATTTGCTCGCAGTATCCTAGAACTTTGTGCTCTTGCTGCAGTTCCATGTTTTCTTGTTCCTCCCAT  
GCCTAGCTGGATTGCAGAGTTAAGTTTATGATTATGAAATAAAAAACCAATAACAA

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**FIGURE 2915**

GQPHRVLRHCHRRRALGPRLLLALFADKFPKTAENFRALSTGEKGF SYKGSCFHRIIPGFMYQGRDFTRHNGTGG  
KSIYGEKFEDENFILKHTGPGILSMANAGPNTNGSQFFICTAKTEWLDGKHVVFGKVKEGMNIMEAMERFGSRNG  
KTSKKITIADCGQLE

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**FIGURE 2916A**

ATGAAAGTGACCGTGTGCTTCGGACGGACCCGGGTGGTTCGTGCCGTGCGGGGACGGCCACATGAAAGTTTTTCAGC  
CTCATCCAGCAGGCGGTGACCCGCTACCGGAAGGCCATCGCCAAGGATCCAACTACTGGATACAGGTGCATCGC  
TTGGAACATGGAGATGGAGGAATACTAGACCTTGATGACATTCTTTGTGATGTAGCAGACGATAAAGACAGACTG  
GTAGCAGTGTGTTGATGAGCAGGATCCACATCACGGAGGTGATGGCACCAGTGCCAGTTCCACGGGTACCCAGAGC  
CCAGAGATATTTGGTAGTGAGCTTGGCACCAACAATGTCTCAGCCTTTTCAGCCTTACCAAGCAACAAGTGAAATT  
GAGGTCACACCTTCAGTCCTTCGAGCAAATATGCCTCTTCATGTTCGACGCAGTAGTGACCCAGCTCTAATTGGC  
CTCTCCACTTCTGTGAGTGATAGTAATTTTCTCTGAAGAGCCTTCAAGGAAAAATCCCACACGCTGGTCAACA  
ACAGCTGGCTTCTCAAGCAGAACACTGCTGGGAGTCCTAAACCTGCGACAGGAAGAAAGATGAAAACCTACAGA  
AGCTCCCCGGGGATACTAGTAACCTGGTCTAACCAATTTTCAGAGAGACAATGCTCGCTCGTCTGTGAGTGCCAGT  
CACCAATGGTGGGCAAGTGGCTGGAGAAACAAGAACAGGATGAGGATGGGACAGAAGAGGATAACAGTCGTGTT  
GAACCTGTTGGACATGCTGACACGGGTTTGGAGCATATACCCAACCTTTCTCTGGATGATATGGTAAAGCTCGTA  
GAAGTCCCCAACGATGGAGGGCCTCTGGGAATCCATGTAGTGCCCTTTTCAGTGCTCGAGGCGGCAGAACCTGGGG  
TTATTAGTAAACGATTGGAGAAAGGTGGTAAAGCTGAACATGAAAATCTTTTCGTGAGAATGATTGCATTGTC  
AGGATTAATGATGGCGACCTTCGAAATAGAAGATTTGAACAAGCACACATATGTTTCGCCAAGCCATGCGTACA  
CCCATCATTTGGTTCATGTGGTTCCTGCAGCAAAATAAGAGCAGTATGAACAACCTATCCCAAAGTGAGAAGAAC  
AATTACTATTCAAGCCGTTTTAGCCCTGACAGCCAGTATATTGACAACAGGAGTGTGAACAGTGCAGGGCTTCAC  
ACGGTGCAGAGAGCACCCCGACTGAACCACCCGCTGAGCAGATAGACTCTCACTCAAGACTACCTCATAGCGCA  
CACCCCTCGGGAAAAACCACCATCCGCTCCAGCCTCGGCACCTCAGAATGTATTTAGTACGACTGTAAGCAGTGGT  
TATAACACCAAAAAATAGGCAAGAGGCTTAATATCCAGCTTAAGAAAGGTACAGAAGGTTTGGGATTACGCATC  
ACTTCCAGAGATGTAACAATAGGTGGCTCAGCTCCAATCTATGTGAAAAACATTCTCCCCGGGGGGCGGCCATT  
CAGGATGGCCGACTTAAGGCAGGAGACAGACTTATAGAGGTAAATGGAGTAGATTTAGTGGGCAATCCCAAGAG  
GAAGTTGTTTTGCTGTTGAGAAGCACCAAGATGGAAGGAAGTGTGAGCCTTCTGGTCTTTCCGCCAGGAAGACGCC  
TTCCACCCAAGGGAAGTGAATGCAGAGCCAAGCCAGATGCAGATTCCAAAAGAAACGAAAGCAGAAGATGAGGAT  
ATTGTTCTTACACCTGATGGCACCAGGGAATTTCTGACATTTGAAGTCCCACTTAATGATTACAGGATCTGCAGGC  
CTTGGTGTGAGTGTCAAAGGTAACCGGTCAAAGAGAACCACGCAGATTTGGGAATCTTTGTCAAGTCCATTATT  
AATGGAGGAGCAGCATCTAAAGATGGAAGGCTTCGGGTGAATGATCAACTGATAGCAGTAAATGGAGAATCCCTG  
TTGGGCAAGACAAACCAAGATGCCATGGAAACCTAAGAAGGTCTATGTCTACTGAAGGCAATAAACGAGGAATG  
ATCCAGCTTATTGTTGCAAGGAGAATAAGCAAGTGCAATGAGCTGAAGTCACCTGGGAGCCCCCTGGACCTGAG  
CTGCCCCATTGAAACAGCGTTGGATGATAGAGAACGAAGAATTTCCATTCCCTCTACAGTGGGATTGAGGGGCTT  
GATGAATCCCCCAGCAGAAATGCTGCCCTCAGTAGGATAATGGGTGAGTCAGGTAAATACCAGCTGTCCCCTACA  
GTGAATATGCCCCAAGATGACACTGTCAATTATAGAAGATGACAGGTTGCCAGTGCTTCTCCACATCTCTCTGAC  
CAGTCTCTTCCAGCTCCCATGATGATGTGGGGTTTGTGACGGCAGATGCTGGTACTTGGGCCAAGGCTGCAATC  
AGTGATTACAGCCGACTGCTCTTTGAGTCCAGATGTTGATCCAGTCTTGTCTTTCAACGAGAAGGATTGGACGT  
CAGAGTATGTGAGAAAAACGCACAAAGCAATTTTCAGATGCCAGTCAATTGGATTTCGTTAAACACGAAAAATCA  
AAAAGCATGGATTTAGGTATAGCTGACGAGACTAACTCAATACAGTGGATGACCAGAAAGCAGGTTCTCCCAGC  
AGAGATGTGGGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCGTTGGAGAGTCTGCAGACCGCAGTTGCCGAGGTG  
ACTTTGAATGGGGATATTCCCTTTCCATCGTCCACGGCCGCGGATAATCAGAGGCAGGGGATGCAATGAGAGCTTC  
AGAGCTGCCATCGACAAATCTTATGATAAACCCGCGGTAGATGATGATGAAGGCATGGAGACCTTGGAAAGAA  
GACACAGAAGAAAGTTCAAGATCAGGGAGAGAGTCTGTATCCACAGCCAGTGATCAGCCTTCCCCTCTCTGGAG  
AGACAAATGAATGGAACCAAGAGAAAGGTGATAAGACTGATAGAAAAAAGGATAAACTGGAAAGAAAGAAAG  
AAAGATAGAGATAAGGAGAAGGATAAAATGAAAGCCAAGAAGGGAATGCTGAAGGGCTTGGGAGACATGTTTCAGG  
TTTGGCAAACATCGAAAAGATGACAAGATTGAGAAAAACGGGTAAAATAAAAAATACAGGAATCCTTTACATCAGAA  
GAGGAGAGGATACGAATGAAGCAGGAGCAGGAGAGGATTCAAGCCAAAACTCGAGAATTTAGGGAACGACAAGCT  
CGAGAGCGTGACTATGCTGAAATTCAAGATTTTCATCGGACATTTGGCTGTGATGATGAGTTAATGTATGGGGGA  
GTTTCTTCTTATGAAGGTTCCATGGCTCTCAACGCTAGACCTCAGAGCCCACGAGAAGGGCATATGATGGATGCT  
TTGTATGCCCAAGTCAAGAAGCCGCGGAATTCAAACCCCTCACCTGTAGACAGTAACAGATCACTCCTAGCAAT  
CATGATCGGATACAGCGTCTGAGGCAAGAATTCAGCAAGCAAAGCAAGATGAAGATGTAGAAGATCGTCCGGCGG  
ACCTATAGTTTTGAGCAACCCTGGCCGAACGCACGGCCGGCGACGCAGAGCGGGCGACACTCGGTGTCCGTGGAG



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**FIGURE 2916B**

GTGCAGATGCAGCGGCAGCGGCAGGAGGAGCGGAGAGCTCCCAGCAGGCCAGCGCCAGTACAGCTCTCTGCCT  
CGGCAAAGCAGGAAAAATGCCAGCTCGGTCTCCCAGGACTCTTGGGAGCAGAACTACTCCCCTGGGGAAGGCTTC  
CAGAGTGCCAAAGAGAACCCAGGTACTCCAGCTACCAAGGCTCCAGGAACGGCTACCTGGGAGGACATGGCTTC  
AACGCCAGGGTCATGCTGGAACTCAGGAGCTCCTTCGCCAGGAACAGAGGCGGAAGGAGCAGCAGATGAAGAAG  
CAGCCTCCTTCCGAGGGGGCCAGCAACTATGACTCGTATAAGAAAGTCCAGGACCCAGTTACGCCCCCTCCAAG  
GGGCCCTTCCGGCAAGATGTGCCCCCTCCCCTTCTCAGGTGCGAGGCTGAACAGACTTCAGACTCCTGAGAAA  
GGGAGGCCCTTCTATTCTGA

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**FIGURE 2917**

MKVTVCFGRTRVVVPCGDGHMKVFSLIQQAVTRYRKAIKDPNYWIOVHRLEHGDGGILDLDLDDILCDVADDKDRL  
VAVFDEQDPHHGGDGTSSASSTGTQSPEIFGSELGTNNVSAFQPYQATSEIEVTPSVLRANMPLHVRRSSDPALIG  
LSTSVSDSNFSSEEPSRKNPTRWSTTAGFLKQNTAGSPKTCDRKKDENYRSLPRDTSNWSNQFQRDNARSSLSAS  
HPMVGKWLEKQEODEDGTEDNSRVEPVGHADTGLEHIPNFSLDDMVKLVEVPNDGGPLGIHVVPFSARGGRTL  
LLVKRLEKGGKAEHENLFRENDICIVRINDGDLNRNRRFEQAQHMFRQAMRTPIIWFHVPAANKEQYEQLSQSEKN  
NYYSSRFSPPDSQYIDNRSVNSAGLHTVQRAPRLNHPPEQIDSHSRLPNSAHPSGKPPSAPASAPQNVFSTTVSSG  
YNTKKIGKRLNIQLKKGTEGLGFSITSRDVTIGGSAPIYVKNILPRGAAIQDGRLLKAGDRLIEVNGVDLVGKSQE  
EVSLLRSTKMEGTIVSLLVFRQEDAFHPRELNAEPSQMQUIPKETKAEDEDIVLTPDGTREFLTTFEVLNDSGSAG  
LGVSVKGNRSKENHADLGIFVKSIINGGAASKDGRLRVNDQLIAVNGESLLGKTNQDAMETLRRSMSTEGNKRGM  
IQLIVARRISKCNELKSPGSPGPPELPIETALDDRERRISHSLYSGIEGLDESPSRNAALSRLIMGESGKYQLSPT  
VNMPQDDTVIIEDDRLPVLPPLSDQSSSSSHDDVGFVTADAGTWAKAAISDSADCSLSPDVPVLAFQREGFGR  
QSMSEKRTKQFSDASQLDFVKTRKSKSMDLGIADETKLNVTDDQKAGSPSRDVGPSLGLKKSSSLESQTAVAEV  
TLNGDIPFHRPRPRIIRGRGCNESFRAAIDKSYDKPAVDDDDDEGMETLEEDTEESSRSGRESVSTASDQPSHSLE  
RQMNGNQEKGDKTDRKKDKTGKEKKKDRDKEKDKMKAKKGMLKGLGDMFRFGKHKRDKDKIEKTGKIKIQESFTSE  
EERIRMKQEERIQAKTREFRERQARERDYAEIQDFHRTFGCDDDELMYGGVSSYEGSMALNARPQSPREGHMMDA  
LYAQVKKPRNSKPSPVDSNRSTPSNHDRIQRLRQEFQAKQDEDEDVDRRTYSFEQPWPNARPATQSGRHSVSVE  
VQMQRQRQEERESSQQAQRQYSSLFRQSRKNASSVSQDSWEQNYSPGEGFQSAKENPRYSSYQGSRNGLGGHGF  
NARVMLETQELLRQEQRRKEQQMKKQPPSEGPSNYDSYKKVQDPSYAPPKGPFQDVPVPPSPQVARLNRLQTPEK  
GRPFYS

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**FIGURE 2918**

CTATTCTGAAACGTGTTTTGCCCGAGGCCTGGGGTGACGGCACCGCTGTACCTGGGGTGAGGGGAGCTGCCGGGC  
CTTTCAGCCCGGTGGTCTCCACGATGCTCCCATCTGTGTGGACGACAATCAGTGTGCTTTTTTCGGTGTTTCAGGC  
TGTCCCGATCTGAAGGGCCGTCTACCAGACTAGAAGGAAAAACCGCTCCCTGGGCCGTCTCCAGCAGGGCTC  
TCTGGCTGTCTCACCAAGAAGGGACGCTCACCTAGGCACCCCATATCTTTTCCAAAGATACCTCTCAAAGACTT  
GAAAACAGAGCCAAGAACAAGAACAGACAATGCCGAAGTCTGTGTGGTGCTGAGGAAAATGCTTGCCATCATTG  
TCAAAGGGAAGGAAGAAAGGTGCTCCACAAACAAGAAACACCCTCCCTTCCACCTGAGCCGCTCCCACAAGGTCA  
CCGTCTTCATGCAGAGTTTCCAACAGACCGAGTTGGCCGCCACAGACAAGGCCTTGTGCAGGACCGCCCTCCAGA  
CCTCCTTACAGATGGCAACTGGAGACCAGGGCCTCAAACCCACATTTCCACACTGGCTGAAGCTGCTGCAACTGC  
TGCCTGCTTCCAAAATCAGCCTTCAGGCGGCACAGACCCCGCCACAGGAAGCCAGAGTCTCCATGCCACACACC  
ACTGCTGGAACCTGAACCCTACCTTGGCCAAGTCATCCGGCAAACCTCTGGCCTGCAGGCTCTGTTACCCCCACGG  
CCCAGCTGCTTTGCCGCCGAGTCCGAGTCTCCATCCGGACTCCGCCGAGCCTTCCCGAAGGCGCCGTCCGGGAC  
CGCCCGAAGCGCCGGCCCGAGCGACCAGAAGGCCCAAAGCGTGTATCCAAGCCCGGCTTTCGCTGGGCACAACCC  
TAGTGGGAGCGGTGGGGACAGAGCCAGCTCGGCCAGACGGTCGGCAGGCCCCAGGAGGGCCATGAGTCAGAGGGC  
AAGGCTGAAACTGGATTTGGAGATCTTAGCCAGGCTGACGGAGGCTCCCAAGAAGGGGGAGCAGGCCACACTCA  
GCACCCTGCGTGGGAGGGGCACCTGACCGCCAGATGGGCGGTCCACCTGAGCCGCACCCTTGGAGGGGCCTTTGG  
TGCCCTCTGCCGGCCGCTCCATGTGCTGCCTTGAAGCAAGTACTCCACTTACTTTGGCTTTTGAAACTATTTC  
CCTAGCCATCGACGAGTACAAGCCCCAGGATGTACCACCAACCCGTCCCTGATCCTGGCCGCAGCACAGATGCC  
CGCTTACCAGGAGCTGGTGGAGGAGGCGATTGCCTATGGCCGGAAGCTGGGCGGCACCTTTGTCTACAGCTTGAC  
ACAGCAAGAATATTCTGTTCCTTAACGCATTTCCAGGACCGTGCCCAATGGCAGACACCAGGTCATTAAACCC  
AGTCACAGCTGAATGA

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**FIGURE 2919A**

AGCCGCCGCCACCCGCCGCCGCCGACACCCGGGAGGCCCGCCAGCCCGCGGGAGAGGCCAGCGGGAGTCGCGG  
AACAGCAGGCCCGAGCCACCAGCGCCGGGCCCCGGACGCCCGCGCGGAAAAGATGAATTTACAACCAATTTTCTGG  
ATTGGACTGATCAGTTTCAGTTTGCTGTGTGTTTGCTCAAACAGATGAAAATAGATGTTTAAAAGCAAATGCCAAA  
TCATGTGGAGAATGTATACAAGCAGGGCCAAATTGTGGGTGGTGCACAAATTCACATTTTACAGGAAGGAATG  
CCTACTTCTGCACGATGTGATGATTTAGAAGCCTTAAAAAGAAAGGGTTGCCCTCCAGATGACATAGAAAATCCC  
AGAGGCTCCAAAGATATAAAGAAAAATAAAATGTAACCAACCGTAGCAAAGGAACAGCAGAGAAGCTCAAGCCA  
GAGGATATTACTCAGATCCAACCACAGCAGTTGGTTTTGCGATTAAAGATCAGGGGAGCCACAGACATTTACATTA  
AAATTCAGAGAGCTGAAGACTATCCCATTGACCTCTACTACCTTATGGACCTGTCTTACTCAATGAAAAGACGAT  
TTGGAGAATGTAAAAGTCTTGGAACAGATCTGATGAATGAAATGAGGAGGATTACTTCGGACTTCAGAATTGGA  
TTTGGCTCATTTGTGGAAGACTGTGATGCCTTACATTAGCACAAACACCAGCTAAGCTCAGGAACCCCTTGACA  
AGTGAACAGAACTGCACCAGCCCATTTAGCTACAAAAATGTGCTCAGTCTTACTAATAAAGGAGAAGTATTTAAT  
GAACTTGTGGAAAACAGCGCATATCTGGAATTTGGATTCTCCAGAAGGTGGTTTCGATGCCATCATGCAAGTT  
GCAGTTTGTGGATCACTGATTGGCTGGAGGAATGTTACACGGCTGCTGGTGTTCACAGATGCCGGGTTTCAC  
TTTGCTGGAGATGGGAACTTGGTGGCATTGTTTTACCAAATGATGGACAATGTCACCTGGAAAATAATATGTAC  
ACAATGAGCCATTATTATGATTATCCTTCTATTGCTCACCTTGTCAGAACTGAGTGAAAATAATATTCAGACA  
ATTTTTCAGTTACTGAAGAATTTTCAGCCTGTTTACAAGGAGCTGAAAACTTGATCCCTAAGTCAGCAGTAGGA  
ACATTATCTGCAAAATCTAGCAATGTAATTCAGTTGATCATTGATGCATACAATTCCTTTCTCAGAAATCATT  
TTGGAACCGCAAATTTGTCAGAAGGAGTAACAATAAGTTACAAATCTTACTGCAAGAACGGGTGAATGGAACA  
GGGGAATGGAAGAAATGTTCCAATATTTCCATTGGAGATGAGGTTCAATTTGAAATAGCATAACTTCAAAT  
AAGTGTCCAAAAAGGATTCTGACAGCTTTAAATAGGCCTCTGGGCTTTACGGAGGAAGTAGAGGTTATTCTT  
CAGTACATCTGTGAATGTGAATGCCAAAGCGAAGGCATCCCTGAAAGTCCCAAGTGCATGAAGGAAATGGGACA  
TTTGAGTGTGGCGCGTGCAGGTGCAATGAAGGCGGTGTTGGTAGACATTGTGAATGCAGCACAGATGAAGTTAAC  
AGTGAAGACATGGATGCTTACTGCAGGAAAGAAAACAGTTTCAGAAATCTGCAGTAACAATGGAGAGTGGCTGTC  
GGACAGTGTGTTGTAGGAAGAGGGATAATACAAATGAAATTTATTCTGGCAAATCTGCGAGTGTGATAATTC  
AACTGTGATAGATCCAATGGCTTAATTTGTGGAGGAAATGGTGTTCGAAGTGTGCTGTGTGAGTGCAACCCC  
AACTACACTGGCAGTGCATGTGACTGTTCTTTGGATACTAGTACTGTGAAGCCAGCAACGGACAGATCTGCAAT  
GGCCGGGGCATCTGCGAGTGTGGTGTCTGTAAGTGTACAGATCCGAAGTTTCAAGGGCAAACGTGTGAGATGTGT  
CAGACCTGCCCTGGTGTCTGTGCTGAGCATAAAGAAATGTGTTTCAGTGCAGAGCCTTCAATAAAGGAGAAAAGAAA  
GACACATGCACACAGGAATGTTCTATTTTAACTTACCAAGGTAGAAAGTCGGGACAAATTACCCAGCCGGTC  
CAACCTGATCCTGTGTCCCATTGTAAGGAGAAGGATGTTGACGACTGTTGGTTCATTTTACGTATTCACTGAAT  
GGGAACAACGAGGTGATGTTTCAATGTTGTGGAGAATCCAGAGTGTCCACTGGTCCAGACATCATTTCAATTTGA  
GCTGGTGTGGTGTGCTGGAATTTCTTATTGGCCTGCATTACTGCTGATATGGAAGCTTTTAAATGATAATTCAT  
GACAGAAGGGAGTTTGCTAAATTTGAAAAGGAGAAAATGAATGCCAAATGGGACACGGGTGAAAATCCATTTAT  
AAGAGTGCCGTAACAACCTGTGGTCAATCCGAAGTATGAGGGAAAAATGAGTACTGCCCGTGCAAATCCCAACAC  
TGAATGCAAAGTAGCAATTTCCATAGTCACAGTTAGGTAGCTTTAGGGCAATATTGCCATGGTTTTACTCATGTG  
CAGGTTTTGAAAATGTACAATATGTATAATTTTAAATGTTTTATTATTTTGAATAATGTTGTAATTCATGC  
CAGGGAATGACAAAAGACTTGAGACAGGATGGTTATTCTTGTGAGCTAAGGTCACATTGTGCCTTTTTGACCTTT  
TCTTCCTGGACTATTGAAATCAAGCTTATTGGATTAAAGTATTTCTATAGCGATTGAAAGGGCAATAGTTAAA  
GTAATGAGCATGATGAGAGTTTCTGTTAATCATGTATTAAACTGATTTTATAGCTTTTACAAATATGTCAGTTTGC  
AGTTATGAGCAATCCAAAGTAAATGTCCTGCTAGCTAGTTAAGGATGTTTTTAAATCTGTTATTTTGCTATTTGC  
CTGTTAGACATGACTGATGACATACTGAAAGACAAGTATGTTGAGAGTTGCTGGTGTAAAATACGTTTGAAATA  
GTTGATCTACAAAGGCCATGGGAAAAATTAGAGAGTTAGGAAGGAAAAACCAATAGCTTTAAACCTGTGTGCC  
ATTTTAAAGATTACTTAATGTTTGGTAACTTTTATGCCCTTACATTACAAATTCAGCCTTAGATAAAAGAACCG  
AGCAATTTTCTGCTAAAAAGTCTTGAATTTAGCACTATTTACATACAGGCCATACCTTTACAAAGTATTTGCTGAA  
TGGGGACCTTTTGAGTTGAATTTATTTTATTATTTTATTTTGTGTTAATGTCTGGTGTCTTCTATCACCTCTTCT  
AATCTTTTAAATGATTTGTTTGCATTTTGGGGTAAAGCTTTTTTATGAGTACTTTTTCTTTGAAGTTTTCAGCG  
TCAATTTGCCCTTTTAAATGAACATGTGAAGTTATACTGTGGCTATGCAACAGCTCTCACCTACGCGAGTCTTACT  
TTGAGTTAGTGCCATAACAGACCACTGTATGTTTACTTCTCACCATTGAGTTGCCCATCTTGTTCACACTAGT

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**FIGURE 2919B**

CACATTCTTGTTTTAAGTGCCTTTAGTTTTAACAGTTCACTTTTTACAGTGCTATTTACTGAAGTTATTTATTAA  
ATATGCCTAAAATACTTAAATCGGA

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**FIGURE 2920**

MNLQPIFWIGLISSVCCVFAQTDENRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLEALKKKGC  
PPDDIENPRGSKDIKKKNVTNRSGTAEKLPEDITQIQPQQLVLRRLRSGEPTFTLKFKAEDYPIDLYYLM  
LSYSMKDDLENVKSLGTDLMNEMRRITSDFRIGFGSFVEKTVMPYISTTPAKLRNPCTSEQNCTSPFSYKNVLSL  
TNKGEVFNELVGKQRISGNLDSPEGGFDAIMQVAVCGSLIGWRNVTRLLVFSTDAGFHFAGDGKLG GIVLPNDGQ  
CHLENNMYTMSHYDYPSTIAHLVQKLSENNIQTIFAVTEEFQPVYKELKNLIPKSAVGTLSANSSNVIQLIIDAY  
NSLSSEVILENGKLSEGV TISYKSYCKNGVNGTGENG RKCSNISIGDEVQFEISITSNKCPKKDSDFS KIRPLGF  
TEEEVILQYICECECQSEGIPE SPKHEGNGTFECGACRCNEGRVGRHCECSTDEVNSEMDAYCRKENSSEIC  
SNNGECVCGQCVCRRDNTNEIYSGKFCECDNFNCDRSNGLICGGNGVCKCRVCECNPNYTGSA CD CSLDTSTCE  
ASNGQICN GRGICECGVCKCTDPKFQGTCEMCQTCLGVCAEHKECVQCRAFNKGEKKDTCTQECSYFNITKVES  
RDKLPQVPQDPVSHCKEKDVDDCW FYFTYSVNGNNEVMHVVENPECPTGPDIIPIVAGVVAGIVLIGLALLLI  
WKLLMI IHDRREFAKFEKEKMNAKWD TGENPIYKSAVTTTVNPKYEGK

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**FIGURE 2921A**

GCTTCAGTCCCGCGACCGAAGCAGGGCGCGCAGCAGCGCTGAGTGCCCCGGAACGTGCGTCGCGCCCCCAGTGTC  
CGTCGCGTCCGCGCGCCCCGGGCGGGGATGGGGGGGCCAGACTGAGCGCCGCACCCGCCATCCAGACCCGCGGG  
CCCTAGCCGCAGTCCCTCCAGCCGTGGCCCCAGCGCGCACGGGCGATGGCGAAGGCGACGTCCGGTGCCGCGGGG  
CTGCGTCTGCTGTTGCTGCTGCTGCTGCCGCTGCTAGGCAAAGTGGCATTGGGCCTCTACTTCTCGAGGGGATGCT  
TACTGGGAGAAGCTGTATGTGGACCAGGCAGCCGGCACGCCCTTGCTGTACGTCCATGCCCTGCGGGACGCCCT  
GAGGAGGTGCCAGCTTCCGCCTGGGCCAGCATCTCTACGGCACGTACCGCACACGGCTGCATGAGAACAACATGG  
ATCTGCATCCAGGAGGACACCGGCCTCCTCTACCTTAACCGGAGCCTGGACCATAGCTCCTGGGAGAAGCTCAGT  
GTCCGCAACCGCGGGCTTTCCCTGCTCACCGTCTACCTCAAGGTCTTCTGTACCCACATCCCTTCGTGAGGGC  
GAGTGCCAGTGGCCAGGCTGTGCCCGCTATACTTCTCTTCTCAACACCTCCTTTCCAGCCTGCAGCTCCCTC  
AAGCCCCGGGAGCTCTGCTTCCCAGAGACAAGGCCCTCCTCCGCATTGCGGAGAACCAGACCCCCAGGCACCTTC  
CACCAGTTCGCGCTGCTGCTGTGCACTTCTGTGCCCAACATCAGCGTGGCCTACAGGCTCCTGGAGGGTGAG  
GGTCTGCCCTTCCGCTGCGCCCCGGACAGCCTGGAGGTGAGCACGCGCTGGGCCCTGGACCGCGAGCAGCGGGAG  
AAGTACGAGCTGGTGGCCGTGTGCACCGTGCACGCCGGCGCGCGAGGAGGTGGTGATGGTGCCCTTCCCGGTG  
ACCGTGTACGACGAGGACACTCGGCGCCACCTTCCCCGCGGGCGTGCACACCGCCAGCGCCGTGGTGAGTTT  
AAGCGGAAGGAGGACACCGTGGTGCCACGTGCGTGTCTTCGATGCAGACGTGGTACCTGCATCAGGGGAGCTG  
GTGAGGCGGTACACAAGCAGCTGCTCCCCGGGGACACCTGGGCCAGCAGACCTTCCGGGTGGAACACTGGCCC  
AACGAGACCTCGGTCCAGGCAACGGCAGCTTCGTGCGGGCGACCGTACATGACTATAGGCTGGTTCTCAACCGG  
AACCTCTCCATCTCGGAGAACCGCACCATGCAGCTGGCGGTGCTGGTCAATGACTCAGACTTCCAGGGCCCAGGA  
GCGGGCGTCTCTTGTCTCACTTCAACGTGTCGGTGCTGCCGGTCAGCCTGCACCTGCCAGTACCTACTCCCTC  
TCCGTGAGCAGGAGGGCTCGCCGATTTGCCAGATCGGGAAAGTCTGTGTGGAAAAGTCCAGGCATTAGTGGC  
ATCAACGTCCAGTACAAGCTGCATTCTCTGGTGCCAAGTGCAGCACGCTAGGGGTGGTACCTCAGCCGAGGAC  
ACCTCGGGGATCCTGTTTTGTGAATGACACCAAGGCCCTGCGGCGGGCCCAAGTGTGCCGAACCTTACTACATGGTG  
GTGGCCACCGACAGCAGACCTCTAGGCAGGCCAGGCCAGCTGCTTGTAAAGTGGAGGGGTATATGTGGCC  
GAGGAGGCGGGCTGCCCCCTGTCTGTGCACTGAGCAAGAGACGGCTGGAGTGTGAGGAGTGTGGCGCCTGGGC  
TCCCCAACAGGCAGGTGTGAGTGGAGGCAAGGAGATGGCAAAGGGATCACCAGGAACCTTCTCCACCTGCTCTCCC  
AGCACCAAGACCTGCCCCGACGGCCACTGCGATGTTGTGGAGACCCAAGACATCAACATTTGCCCTCAGGACTGC  
CTCCGGGGCAGCATTGTTGGGGGACACGAGCCTGGGGAGCCCCGGGGGATTAAAGCTGGCTATGGCACCTGCAAC  
TGCTTCCCTGAGGAGGAGAAGTGCTTCTGCGAGCCCCGAAGACATCCAGGATCCACTGTGCGACGAGCTGTGCCG  
ACGGTGATCGCAGCCGCTGTCTCTTCTCTCTCATCGTCTCGGTGCTGCTGTCTGCCTTCTGCATCCACTGCTAC  
CACAAGTTTGCCCAAGCCACCCATCTCCTCAGCTGAGATGACCTTCCGGAGGCCCCGCCCAGGCCTTCCCGGT  
AGCTACTCTCTTCCGGTGCCCGCCGGCCCTCGCTGGACTCCATGGAGAACCAGGTCTCCGTGGATGCCCTTCAAG  
ATCCTGGAGGATCCAAAGTGGGAATTCCCTCGGAAGAACTTGGTTCTTGGAAAAGTCTAGGAGAAGGCGAATTT  
GGAAAAGTGGTCAAGGCAACGGCCTTCCATCTGAAAGGCAGAGCAGGGTACACCACGGTGGCCGTGAAGATGCTG  
AAAGAGAACGCCCTCCCCGAGTGAGCTGCGAGACCTGCTGTGAGAGTTCAACGTCTGAAGCAGGTCAACCACCA  
CATGTATCAAAATTGTATGGGGCCTGCAGCCAGGATGGCCCGTCTCTCTCATCGTGGAGTACGCCAAATACGGC  
TCCCTGCGGGGCTTCTCCGCGAGAGCCGCAAGTGGGGCTGGCTACCTGGGCAGTGGAGGCAGCCGCAACTCC  
AGCTCCCTGGACACCCGGATGAGCGGGCCCTCACCATGGGCGACCTCATCTCATTGCGCTGGCAGATCTCACAG  
GGGATGCAGTATCTGGCCGAGATGAAGCTCGTTTCATCGGGACTTGGCAGCCAGAAACATCCTGGTAGCTGAGGGG  
CGGAAGATGAAGATTTTCGGATTTTCGGCTTGTCCCGAGATGTTTATGAAGAGGATTCCTACGTGAAGAGGAGCCAG  
GGTCGGATTCAGTTAAATGGATGGCAATTGAATCCCTTTTGTATCATATCTACACCACGCAAGTGATGTATGG  
TCTTTTGGTGCTGCTGTGGGAGATCGTGACCTAGGGGGAAACCCCTATCCTGGGATTCTCTCTGAGCGGCTC  
TTCAACCTTCTGAAGACCGGCCACCGGATGGAGAGGCCAGACAACTGCAGCGAGGAGATGTACCCCTGATGCTG  
CAATGCTGGAAGCAGGAGCCGGACAAAAGGCCGTGTTTGGCGACATCAGCAAAGACCTGGAGAAGATGATGGTT  
AAGAGGAGAGACTACTTGGACCTTGGCGGCTCCACTCCATCTGACTCCCTGATTTATGACGACGGCTCTCAGAG  
GAGGAGACACCGCTGGTGGACTGTAATAATGCCCCCTCCCTCGAGCCCTCCCTTCCACATGGATTGAAAACAAA  
CTCTATGGCATGTGACACCCGAAGTGGCCTGGAGAGAGTCTGTACCACTCACGAGAGCTGATGGCACTAACACT  
GGGTTTCCAAGATATCCAAATGATAGTGATATGCTAACTGGATGCTTTCACCTCAGCGGCAAAATTAATGGAC  
ACGTTTGATAGTTAAACATTTCTTTGTGAAAGGTAATGGACTCACAAAGGGGAAGAAACATGCTGAGAATGGAAAGT

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**FIGURE 2921B**

CTACCGGCCCTTTCTTTGTGAACGTCACATTGGCCGAGCCGTGTTTCAGTTCCAGGTGGCAGACTCGTTTTTGGT  
AGTTTGTTTTAACTTCCAAGGTGGTTTTACTTCTGATAGCCGGTGATTTCCCTCCTAGCAGACATGCCACACCG  
GGTAAGAGCTCTGAGTCTTAGTGGTTAAGCATTCCTTTCTCTTCAGTGCCAGCAGCACCAGTGTTGGTCTGTG  
TCCATCAGTGACCACCAACATTCTGTGTTACATGTGTGGGTCCAACACTTACTACCTGGTGTATGAAATTGGAC  
CTGAAGTGTGGATTTTCTAGTTGCCGCCAAACAAGGCAAAAAAATTTAAACATGAAGCACACACAAAAAAG  
GCAGTAGGAAAAATGCTGGCCCTGATGACCTGTCCTTATCAGAATGAGAGACTGCGGGGGGGCCTGGGGGTAG  
TGCAATGCCCCCTCAGGGCTGGAGGGGAAGAGGGGCCCCGAGGATGGGCCTGGGCTCAGCATTGAGATCTTGA  
GAATGATTTTTTTTTAAATCATGCAACCTTTCCTTAGGAAGACATTTGGTTTTTCATCATGATTAAGATGATTCCTA  
GATTTAGCACAAATGGAGAGATTCCATGCCATCTTTACTATGTGGATGGTGGTATCAGGGAAGAGGGCTCACAAAG  
CACATTGTCCCCCGGGCCACCACATCATCTCAGTGTTTCGGTACTGAGCAGCCACTACCCCTGATGAGAACA  
GTATGAAGAAAGGGGGCTGTTGGAGTCCAGAATTGCTGACAGCAGAGGCTTTGCTGCTGTGAATCCACCTGCC  
ACCAGCCTGCAGCACACCCACAGCCAAGTAGAGGCGAAAGCAGTGGCTCATCTACCTGTTAGGAGCAGGTAGG  
GCTTGTAAGTCACTTTAATTTGAATCTTATCAACTTACTCATAAAGGGACAGGCTAGCTAGCTGTGTTAGAAGTAG  
CAATGACAATGACCAAGGACTGCTACACCTCTGATTACAATTCTGATGTGAAAAAGATGGTGTGTTGGCTCTTATA  
GAGCCTGTGTGAAAGGCCCATGGATCAGCTCTTCTGTGTTTGTAAATTTAATGCTGCTACAAGATGTTTCTGTTT  
CTTAGATTCTGACCATGACTCATAAGCTTCTTGTCAATCTTCATTGCTTGTGTTGTGGTACAGATGCACAACACT  
CCTCCAGTCTTGTGGGGGAGCTTTTGGGAAGTCTCAGCAGCTCTTCTGGCTGTGTTGTGTCAGCACTGTAACCTCG  
CAGAAAAGAGTCGGATTACCAAAACACTGCCTGCTCTTCAGACTTAAAGCACTGATAGGACTTAAAAATAGTCTCA  
TTCAAATACTGTATTTTATATAGGCATTTCAAAAAACAGCAAAATTTGTGGCATTGTTGTGAGGCCAAGGCTTGGA  
TGCGTGTGTAATAGAGCCTTGTGGTGTGTGCGCACACACCCAGAGGGAGAGTTTGAAAAATGCTTATTGGACACG  
TAACCTGGCTCTAATTTGGGCTGTTTTTCAGATACACTGTGATAAGTTCTTTTACAAATATCTATAGACATGGTA  
AACTTTTGGTTTTTCAGATATGCTTAATGATAGTCTTACTAAATGCAGAAATAAGAATAAACTTTCTCAAATTATT  
AAAAATGCCTACACAGTAAGTGTGAATTGCTGCAACAGGTTTGTCTCAGGAGGGTAAGAATCCAGGTCTAAAC  
AGCTGACCCAGTGATGGGGAATTTATCCTTGACCAATTTATCCTTGACCAATAACCTAATTGCTATTCTGAGT  
TATAAAAGTCCCCATCCTTATTAGCTCTACTGGAATTTTATACACGTAATGCAGAAGTTACTAAGTATTAAGT  
ATTACTGAGTATTAAGTAGTAATCTGTCAGTTATTAATTTGTAAATCTATTTATGAAAGGTCATTAAACCAG  
ATCATGTTCCTTTTTTTTGTAATCAAGGTGACTAAGAAATCAGTTGTGTAAATAAAATCATGTATC



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**FIGURE 2922**

GATGAGAGCATTACCTCCAGCTGCAGAAGAAACACAGGGACAAGATGCTGCGCATGCAGAAAGGTGACCCACAA  
GTCTATGAAGAACTTTTCAGTTACTTCTGCCCCAAGTTCCTGTGCGCTGTAGTGCCCAACTATGATAATGTGCAC  
CCCAACTACCACAAAGAGCCCTTCCTGCAGCAGCTGAAGGTGTTTTCTGATGAAGTACAGCAGCAGGCCAGCTT  
TCAACCATCCACAGCTTCCTCAAGCTCTACACCACCATGCCTGTGGCCAAGCTGGCTGGCTTCCTGGACCTCACA  
GAGCAGGAGTTTCAGGATCCAGCTTCTTGTCTTCAAACACAAGATGAAGAACCTGGTGTGGACCAGCGGCATCTCA  
ATCCTGGATGGTGAATTTTCAGTCAGCCTCAGAGGTTGACTTCTACATTGATAAGCTTAATCGAACCTGAAGAAG  
ATGGGACAGAGACCCTGATGACATTCACACACATTATTTAGGAACCTGTTTTGATATATTACAGGCAGGAAGTGT  
TTTTGCTACCGTGAAACCTTTACCTAGATCAGCCATCAGCCTGTCTACTCAGTTAACAAGTTAAGGACCGACGTG  
TTTCAAGTGGATATCAGTAAAGGATCTTTGGAGCC

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**FIGURE 2923**

ATGAAGGAAGACTGTCTGCCGAGTTCTCACGTGCCCATCAGTGACAGCAAGTCCATTCAGAAGTCGGAGCTCTTA  
GGCCTGCTGAAAACCTACAACCTGCTACCATGAGGGCAAGAGCTTCCAGCTGAGACACCGTGAGGAAGAAGGGACT  
CTGATCATCGAGGGGCTCCTCAACATTGCCTGGGGGCTGAGGCGGCCCATCCGGCTGCAGATGCAGGATGACCGG  
GAGCAGGTGCACCTCCCCCTCCACCTCATGGATGCCCAGACGGCCTAGCTGCCCTCTAAAGGAGCCATCGCCCCAG  
AACGGGAACATCACAGCCAAGGGGCCAAGCATTAGCCAGTGCACAAGGCTGAGAGTTCCACAGACAGCTCGGGG  
CCCCTGGAGGAGGCAGAGGAGGCCCCCAGCTGATGCGGACCAAGAGCGACGCCAGTTGCATGAGCCAGAGGAGG  
CCCAAGTGCCGCGCCCCCGGTGAGGCCCAGCGCATCCGGCGACACCGGTTCTCTATCAACGGCCACTTCTACAAT  
CATAAGACCTCCGTGTTTACTCCAGCCTATGGATCCGTGACCAATGTGAGGGTCAACAGCACCATGACAACCCTG  
CAGGTGCTCACCTGCTGCTGAACAAATTTAGGGTGGAAGATGGCCCCAGTGAGTTCGCACTCTACATCGTTCAC  
GAGTCTGGGGAGCGGACAAAATTTAAAGACTGCGAGTACCCGCTGATTTCCAGAATCCTGCATGGGCCATGTGAG  
AAGATCGCCAGGATCTTCCTGATGGAAGCTGACTTGGGCGTGGAAGTCCCCCATGAAGTCGCTCAGTACATTAAG  
TTTGAAATGCCGGTGCTGGACAGTTTGTGAAAAATTTAAAGAAGAGGAAGAAAGAGAAATAATCAAACCTGACC  
ATGAAGTTCCAAGCCCTGCGTCTGACGATGCTGCAGCGCCTGGAGCAGCTGGTGGAGGCCAAGTAA

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**FIGURE 2924**

MKEDCLPSSHVPISDSKSIQKSELLGLLKTYNCYHEGKSFQLRHREEEGTLIEGLLNIAWGLRRPIRLQMQDDR  
EQVHLPSTSWMPRRPSCPLKEFSPQNGNITAKGPSIQPVHKAESSTDSSGPLEEAAEEAPQLMRTKSDASCMSQRR  
PKCRAPGEAQRIRRHRSINGHFYNHKTSVFTPAYGSVTNVRVNSTMTTLQVLTLLLKNKFRVEDGPFSEFALYIVH  
ESGERTKLDCEYPLISRILHGPCEKIARIFLMEADLGVEVPHEVAQYIKFEMPVLDSFVEKLKEEEEEREIIKLT  
MKFQALRLTMLQRLEQLVEAK

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**FIGURE 2925**

CACACTGCTCAGGGAAGAGCCTGCTACGGTGGACTGTGAGACTCAGTGCACTGTCCTCCTCCCAGCGACCCCACG  
CTGGACCCCCTGCCGGACCCTCCACCCTTCGGCCCCCAAGCTTCCCAGGGGCTTCCTTTGGACTGGACTGTCCCT  
GCTCATCCATTCTCCTGCCACCCCAGACCTCCTCAGCTCCAGGTTGCCACCTCCTCTCGCCAGAGTGATGAGGT  
CCCGGCTTCTGCTCTCCGTGGCCCATCTGCCACAATTTCGGGAGACCACGGAGGAGATGCTGCTTGGGGGTCCTG  
GACAGGAGCCCCACCCTCTCCTAGCCTGGATGACTACGTGAGGTCTATATCTCGACTGGCACAGCCCACCTCTG  
TGCTGGACAAGGCCACGGCCCAGGGCCAACCCAGGCCACCCACAGGCCAGCCCAGGCCTGCCGGAAGGGCCGCC  
CTGCTGTGTCCCTGCGAGACATCACCGCACGTTTCAGTGGCCAGCAGCCCACACTGCCCATGGCTGATACTGTGG  
ACCCCTGGACTGGCTTTTTTGGGGAGTCCCAGGAAAAGCAGCCAAGCCAGAGGGACCTGCCAAGGAGGACTGGCC  
CCTCTGCTGGCCTCTGGGGTCCACATAGACAGATGGACAGCAGCAAGCCCATGGGGGCCCCCAGAGGGAGGCTCT  
GTGAAGCCAGGATGCCTGGGCATTCCCTGGCAAGACCACCGCAGGATGGGCAGCAGAGCTCTGACCTAAGAAGCT  
GGACTTTTGGGCAGTCTGCCCAAGCCATGGCCTCCCGCCACCGCCCCCGCCCCAGCAGTGTCTCAGAACACTCT  
ACTCGCACCTCCCGGTGATCCATGAACCTCTGACCCCTCCCCAGTAAAGGCTTCTGTAGAGAGCATGCTGGGTCTG  
CATCTCCTCTCGTCTCCTCCATGGTGGTCACTGCCCTGGCAGGTCTCTGAAAGGGAATGCTTTTCTGCAGAGG  
CCCCGCTTGGGCAGTTCACAGTGAGACCGACCCCTCTGAATATGATAACAGCCTGTTTCACATGAGGAGATGT  
TACCAATCCCGTTTCGCTCTGACCCCTTGCTGGCTGATCACCTTGAGCAACTTACTTAACATCTGTGTTCTCTCAGTT  
TCTCATGGGTAATATAGGGATAATTACTGGCACCTGCCTCCCAGGCCATTCTGACGTGTAACCGCATATAGGAGC  
CCACTGGCTGAGTAGCTACCATCATCGCTGGTGGGAACTGGTGGTAGGGGTGTGAGGGTAGTGGGGGTGTGAG  
CCCCCAGGTGTTTTCAGAACAAGGCCTCGGGCACTCCCAAGTCTGCCTCTTGGCTCCCACCCTCAAAGCCCATGT  
TCTGTGAGGCCCAAGAGAACACATGGAGTCTTAGCAAATGCACTAATGTATTCCGGGGGACTGTACCTGGCACC  
ACTGGGGCACTCTGCTGGCTACAACCTACATCGTCTGTGGTGGCATTGGGAGAGTTCCCCCATGATGAGGGCCAA  
GATAGAATCTGTACCACTCAGTGCTACCATCCCCACCCCTACACCACTTCCACACAGGGGCCTCATGGCATGGTC  
AGGGTCCCAGCTGTGGGTGAGAGCAGGGCACTGTCCAGCTGTCCACTGGGGAAGTCAAGATGTCCTAAGGCCCAG  
GTCAGGGCATCTGGAGTCTGAAGGACCCTAGTTTCTAGAGGCATCTGGCAGCAAGAAGGTGAGGCATCAGGGAAC  
GGGAATCAGGCTGGGACTGATCAGAGGTGAAGGGACAGAGAGAGGAGAGGAGGAAGATTGAGCTGGGGGCAACAG  
CCAAGCTCACCTGGGCAGGTCTCTGCCACCTCCTTGCTCTGTGAGCTGTCAGTCTAGGTTATTCTCTTTTTTGT  
GGCTATTTTTAATTGCTTTGGATTTGTTAAATGTTTTCTGTCTTCTGTTAAGTGTGTTTTCTCTGGAGATAGAAT  
GTAAACCATATTAAAAGGAAAAAGTTTCAGACAAGCAATTACCCAGTTTCTTATCTATAAAATGGGGACATCAG  
CAATGTTCTTACACCCGTCAAGGGCTGGGAATCTGCGCATGTGAACCTGGAGCTGCATTTATGAGCACTGTAGA  
CAAATGTTGTATCTGTAC

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**FIGURE 2926**

GTCGTGGAAGCAGGACTGCGCCGCGTCTTCCTCAAGGTGGGGTTCGGGGGGCCACCGAATCGCTGTCACGCCGGC  
AGGTTGAGAACAAAAACATGCACCTGGAGTTTCCCGGAGCCCTCTGCGTGGTTGAGCTTCGGTGAATTTCCGG  
GCTCTTGGCTGCCAGCCGCGCTTGCTTGGTAGCAACAGAAACCAGTCCTGCTCGCTCCGTGGACATTTCAATTAC  
CATCCAGAAGTGCTCTCCCACTGAAGGCATCCGTGGTTGTTTTTAAGCCACAAAAAGCCACACCCAAGATCACCT  
GACACCCACCCTGACAAGTGTCATGATGCTGGGCCCTGAGGGAGGTGAAGGCTTTGTGGTCAAGCTCCGTGGCC  
TGCCCTGGTCTGCTCTGTTGAGGACGTGCAGAACTTCTCTCTGACTGCACGATTCATGATGGGGCCGCAGGTG  
TCCATTTTCATCTACACTAGAGAGGGCAGGCAGAGTGGTGAGGCTTTTGTGAACTTGGATCAGAAGATGATGTAA  
AAATGGCCCTGAAAAAAGACAGGGAAAGCATGGGACACCGGTACATTGAGGTGTTCAAGTCCACAGAACCGAGA  
TGGATTGGGTGTTGAAGCACAGTGGTCCCAACAGTGCCGACAGCGCCAACGATGGCTTCGTGCGGCTTCGAGGAC  
TCCCATTTGGATGCACAAAGGAAGAAATTGTTCACTTCTTCTCAGGGTTGGAATTTGTCCAAACGGGATCACAT  
TGCTGTGGACCCCGAAGGCAAGATTACAGGGGAAGCGTTTCGTGCAGTTTGCTCGCAGGAGTTAGCTGAGAAGG  
CTCTAGGGAAACACAAGGAGAGGATAGGGCACAGGTACATTGAGGTGTTTAAGAGCAGCCAGGAGGAAGTTAGGT  
CATACTCAGATCCCCCTCTGAAGTTCATGTCCGTGCAGCGCCAGGGCCCTATGACCGGCCCGGACTGCCAGGA  
GGTACATTGGCATCGTGAAGCAGGCAGGCCTGGAAAGGATGAGGCCTGGTGCTACAGCACAGGCTACGGGGGCT  
ACGAGGAGTACAGTGGCCTCAGTGATGGCTACGGCTTACCACCGACCTGTTCCGGAGAGACCTCAGTACTGTC  
TCTCCGGAATGTATGACCACAGATACGGCGACAGTGAGTTCACAGTGCAGAGCACCACAGGCCACTGTGTCCACA  
TGAGGGGCTGCCGTACAAAGCGACCGAGAACGACATTTACAACCTTCTCTCTCTCAACCTGTGAGAGTCC  
ATATTGAGATTGGCCAGATGGAAGAGTGACGGGTGAAGCAGATGTTGAGTTTGCTACTCATGAAGAAGCTGTGG  
CAGCTATGTCCAAAGACAGGGCCAATATGCAGCACAGATATATAGAACTCTTCTTGAATTCAACAACAGGGGCCA  
GCAATGGGGCGTATAGCAGCCAGGTGATGCAAGGCATGGGGGTGTCTGCTGCCAGGCCACTTACAGTGGCCTGG  
AGAGCCAGTCAGTGAGTGGCTGTTACGGGGCCGGCTACAGTGGGCAGAACAGCATGGGTGGCTATGACTAGTTTT  
GTTAGGAACATTTGAGTTACTTCAATCATTTTTCACAGGCAGCCAACAAGCAATTAAGAGCAGTTATAATAGAGGA  
AGCTGGGGGACCCATTTTGACCATGAGTTTGTGAAAAATCTGGATTAAAAAATTACCTCTTCAGTGTTTTCTCA  
TGCAAAATTTTCTCTAGCATGTGATAATGAGTAACTAAACTATTTTCAGCTTTTCTCAATTAACATTTTGGT  
AGTATACTTCAGAGTGATGTTATCTAAGTTTAAAGTAGTTTAAAGTATGTTAAATGTGGATCTTTTACACCACATCA  
CAGTGAACACACTGGGGAGACGTGCTTTTTTGGAAACTCAAAGGTGCTAGCTCCCTGATTCAAAGAAATATTTT  
TCATGTTTGTTCATTCTAGTTTATATTTTCATTTAAATCCTTTAGGTTAAGTTTAAAGCTTTTTAAAGTTAGTT  
TTGAGAATTGAGACACAATACTAATACTGTAGGAATTGGTGAGGCCTTGACTTAAACTTTCTTTGTACTGTGAT  
TTCCTTTTGGGTGTATTTTGCTAAGTGAAACTTGTTAAATTTTTTGTAACTAAATTTTTTCTTAAATAAAGA  
CTTTTTCACAATGACTGGCACAGATTACTCAGCAAAAGATAGCAAAACGGGTGGTTGAAGATAATTCATTTTAAT  
CGTAATGTATTTTAGTGTGAATTTAAAAATTTTCATACATCAAATCTATGATCTCCCTTATATTCTTATGATGAGG  
CTAAATAAAAGTCTAATAAAATGTTAAATATGTGAATGGTGAAATGGTGACTAGCAGCACACATTCTGGGAAG  
CATCAAAATAGACACACGGCCCCAGCCACCTGCAACTTATGTGCAGTGTGTAAACCATTTCAGATTTTCCCTGCTA  
GGCCCTTGATGCTGGAGTCACATCTGTTGATAGCTGGGAACTTTAGTTTCAAGTACTACATTGTGAAAGCAATT  
ATTTGTTTTCTAGTTTTTATAAAATGCTGATTTAACTTTT

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**FIGURE 2927**

CGTGTGCACCCTAGCGTCAGCCTCGAGTTTGACCAGCAGCAGGGGTCGGTGTGTCCCTCTGAATCTGAGATCTAT  
GAGGCAGGAGCTGAGGACAGGATGGCAGGAGCGCCCATGGCTGCTGCTGTACAGCCTGCTGAGGTGACTGTTGAA  
GTTGGTGAGGACCTCCACATGCACCACGTTTCGTGACCGGGAGATGCCTGAAGCTTTGGAGTTTAACCTTTCTGCC  
AATCCAGAGGCAAGCACAAATATTCCAGAGGAAGTCTCAAACAGATGCTTTGGAGTTTAACCTTTCTGCCAATCCA  
GAGGCAAAACACAATATTCCAGAGGAAGTCTCAAACAGATGGTGAGACGACATTGTTTTTCCGCCAAGAGAAAGA  
ATAAAATCTCTTGTTTGATCAGGTT

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**FIGURE 2928**

MGNILTCRVHPSVSLEFDQQGSGVCPSESEIYEAGAEDRMAGAPMAAAVQPAEVTVEVGEDLHMHVDRDREMPEA  
LEFNLSANPEASTIFQRNSQTDALFNPSANPEANTIFQRNSQTDGETTLFFPPRERIKSLV

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**FIGURE 2929**

GAATTTCCGTTTCCGGCGGTGTCCAAGCGGACCTAAGGAGTCGCAGTTGTGAACAGGTTAGAGTTACTTGTTATT  
GGTAAATAGCCACTATGGAGACTAAGGACCAGAAGAAACACAGAAAGAAAAACAGTGGACCCAAAGCTGCAAAGA  
AAAAGAAGTGGCATCTGCAGGATCTCCAGCTAGGAGACGAAGAAAATGCCCAGAAGAGAAATGCCAATGCTTTTG  
CAGTTCAGTCTGCTGTGTGGATGTCTCGATCCTTTCACAGGACTCTGGATTTGAAGACACAAAAGCATCATATTC  
CAGTGGTTGATGGAATCCACTAGAGCCGCCACCAATAGCGGTAGTGGTGACGGGGCCTCCAAAGTTGGAAGAG  
CACTTTGATATAATGCCTCATTGGAATTCACCTGGCAGAAGTTCACCGAGATCAGAGGCCCTGTGACGATCGT  
GTCAGGTAAAAAGCGCAGACTCACCATTATTGAATGTGGGTGTGACATTAACATGATGATTGATCTGGCTAAAGT  
AGCAGATCTGGTAAGTGAGCAGGGGCAGCCTGGGGTGCTGATGGAGACTTACAGCATTGTGATAGGTTATTTACC  
CCGTGATGAAGGGAAGAGAGTTTTGTGATTATTAAAAGGATCATGGTCATTATCAGGGATATAGTAGATGTGATT  
GAATTGATGATGATAATAATAATAGTAATAAATGTTGTCATATTAATAATACAAATGGAATGTGCACAATGAAAT  
GTGTTCCAAAATCTAAAAGCAGATCACAGGA



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FIGURE 2930

ATGGCATTCAAGACCCCTTTGTGGTGAGGTAGATGAGCGTCAGGAAGGATCATCCTCCTCATCCGCAGATCCAACA  
GCCGGTAACATTCCGGCCTACAGCACGTCCCTACCTCAGCTGAACCGCTGGGACCAACACGCCGTACCGCAGCCG  
CGCACGCCCAGCAGCCACTCCCGGCCTGCCCGGGGCCTGACGTCATCACATCGCGACGCTCGCTGATCCCGCCC  
GGATTACCTGGGCTCTGGACGAGAAGCGCCTCGTCCCTTAGCCACACCCCCGGGGAGCCAGGGGCATCTGGCAT  
CCGGCAAGTGGCAGCTCCCTCATCATCTGTCTGATCCAAATTCACCCACATTCAGCCAGCTCTGAAGGTACGG  
CTGGCTGTATGTGGCAAACAGAGCAGCCACGACCACAACTGCCGGGACTTCACAATTGGCTTTGTAGTTTGTCT  
GAGGGACTGTCCAGGTTTGGAGAAGTCCCTAGCCTATCACAGGGATACCTGGTTTGAAGTGTGACCTCATATCTT  
TACCGTGACCTCGGTGGGCCAGAGATGCAGGCAGCTGGCCATGAAGACGCACTTCCCGAGGAAGAGGAGACAGG  
CTCACCCGCTGCAGGGCAGTCCCACAGCCTGCCTGCAATGGAGCCTTCAAGAATACAAACACTTCTAGAACAAAGT  
TATCAGGAACATGGCATGGTTGGGCCTTCTCTGAACGGGCCCCAGGGTAAGCCATCTGATAAGGGAGAAACATCT  
GCCAACACCCTCAGCCACAGCGTCACTGGGCTCAAGGGCCACAAAGGAGGCAAAAGCCTGCAGGGAAAAGAAATC  
CAAGACAGTAAACAGAAGAACGAGTATTTGCCTGTAACTATCTGTGTGACAGGTTCTCTGGTGAGGTGCCAGAG  
CACCCAGGACCAGCACACAAGACACAGTCATACACTGAGATGGAGGACAAGGTTCCCTACAGGGACGAAGATGAG  
ACAACAGAGCGACAAACACAGGAAAGTGACTTCAGGCATCCATTAGGAGGGACAAGCAGTAGCCCTACTTATGGG  
TGGCAAGATGTACCTTCATTCTGGCAAAGCTGATTGAAGAATGCAGCATTAGATGTGCAGCTATACAGACCTGC  
CAGATCAACAAGCCCTCGGGCAATGCCTATGATGCTGCTTCACTGGCTGCACAGTCACAGGGACCTCCCCAGAAC  
TGCTGTGCAAAGGTCAACTTCCCAGACCCCCAGAGGCCAATGTCTTCATGGTGCTCCTGGTGGAGCCACCAGCT  
GCTCCCAGCCCGGCTGCCACACAGAGAGTACGGCAGCCTCACACTGCTGGTTATCCCAGAGGCTTGGAGCAGGGT  
TGGAGGGATGAAGCAGGCTGGACTGCGTCCTTAGGAAGACAGAAGCCATCGTCGATATGGCCGTTCCCTTGTC  
CCTCCCTCCTGCTCCTACAGCAAGCATACCAGGGCTGACTCCTCTCCACACCGCAGCATGGAGAATTCAGAGGGC  
AATAATAGCAACTGCTTGCTTGTAAGTGCTTGGAGCTCAGAGGAGAAAAGGTGTCAGACAAGTGTAATGTTA  
CTACTGGCACAGGCCAGAGGATGGAATGGAAAATCCCAGCAGAAATTGGGAAGTTCAGAGGAAGCCATTTGTGAGC  
TCCTCTGAACAAATGGATACAGGAAAAGGGGCCTTCCTCTGGCAGCCAGGCACAGCCCAGACCACTGCTGCCAC  
AGCCCTCACCAAGAGAGGAACATAGAGGGGAAGCGGGGAGGGGAGGAGGCTAGTAATATAGCTCATAGTCAG  
ACTCAGACCAATCTGCTGGTCTTGACAAAGGAGTTTTGTGAGCAGAGAACTCATGCTGCTCTCCTTGGGCACATG  
GAAATTGGAATCCTAAGGAGTCCCTACAAAGCCCCAGAGAAATCTGGCCATTCTCCAGGGGACCGAGCATCCCC  
ATGGTGCTGCATGGGAGTCCCCAGAAGCTACCACCCCCAACCAGCTTTGGACACCCCTGCTCTTATTTTCTGCA  
TCCCCAGAACTACCTGCCCTAGTGCTGAGCTCATGGAAGTTCCCTCAGGAAGCATCTTCACATGGATGTTGAAGAG  
AAAAAATCTCCAGGTCCACGGGGTGCTGTGGGAGTCCAAAATCAGGACTCCAAAAGGCCTGTGA

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**FIGURE 2931**

AGTGCTCTTGGCCGGGAGGAGGCTGTGCTGCACCAGCACCTCTTGCTCCACATCTCCAGAGAGCCCAGGGCCCTG  
TGGCCGAGTGTGTCCAGCCAGTGTTCATGGGGAGCTTCCATATCTCATGGCTCCTTGCTGGGCCAAGCCCTCCAG  
AACCCCAAACCCCAAAGACTGATGAATGCCAGAGTGGCCACCTTGCTTATCTGTGGCCCCGGCCCTGGTGATCA  
CCATGGCAGCTGGGAAGGGAGCCCCGTTGAGCCCATCGGCTGAAAACAGATGGCGACTTAGCGAACCTGAGCTGG  
GCCGGGGCTGCAAGCCAGTGTGCTCGAGAAGACGAACCGCCTGGGCCCTGAGGCTGCTGTGGGCAGGGCGGGCC  
GGGATGTGGGCAGTGGGAGCTGGCACTGTTGGTAGCCCCAGGCAAGCCCCGACCTGGCAAGCCGCTGCCCCGA  
AGACACGTGGAGAGCAGAGGCAGAGCGCCTTCACGGAGCTGCCGAGGATGAAGGACCGGCAGGTGGATGCTCAGG  
CCCAGGAGAGGGAGCAGATGACCCACAGGCCAACCTGGTGCCCCACAGCTGACCCAGAACATCCCCAGAGGCC  
CAGCTGGCAGCAAAGTCTTCTGTGTGGCCAGCGGAGCACGAAGTGAGCAAAGAAGCGCCTTTAGCAAACCAA  
CCAAGCGACCAGCAGAGAGGCTGAGCTAACCTCAGTCTTCCCTGCAGGGGAATCTGCAGATGCCCTGGGGGAGC  
TGTCTGGACTCCTCAACACTACAGACCTCGCTTGTGGGGTCGACTTTCAACTCCCAAGCTTTTGGTTGGTGATT  
TGTGGAACCTTGAAGCATTGCCACAGAATGCTCCACTCTGTAGCACTTTTCTGGGTGCCCTACACTGTGGCTGG  
AGCATACCCAGGCCCAGGTGCCCCACCCTCATCATCCTCCACCACTTCGTGGGCCCTCCTGCCACCCACCCTCA  
CCTCCCTGGGCTGTGTCCACCCAGAAGTGGTGTGCAAAAGTGCAACCTGTCTTTTCGCCTAACGTCCGACCTGGTCT  
TTCACATGCGATCCCACCACAAAAGGAGCATGCGGGGCCTGACCCACATTCTCAGAAGCGGAGAGAAGAGGCC  
TTGCCTGCCCTGTGTGCCAGGAGCACTTCCGGGAGCGCCACCACCTCTCCCGGCACATGACTTCTCACAGCTAGC  
AGGTGACCGCAGAATGACCTGTGGGTGCAGCAGCCAGCCTTTGGCAGAGGGGGCTCCCTGGGCCTGCGTTGAG  
GGGGCTGTCTATGGTCCCTTTGCAGAGCTGCTGCTTTTGGCATTATAGATAAAACAGCTCAGGCATAATTTGAAAA  
GCCACACCTGCATGATGTGTTTTGAAGGAAATGAAGTCTGAAATAAAGTGATGGGCTTTGCAATCCAGGGTAG  
AGGCCCTAACAGGCACAGAGAGCAGGGGCAACTCTGGCACACATCATGGGCTTTGGAGGCACACAAGCCTGGAT  
TCGAATCTGGGCTCTTTACATACTAGCTGTGACCTGGACAAAGAGCTTTAACCTGCTGAGTCCCCATTTTCTC  
ATCTGTGAAATGGAGATGATAACACTGTGTCTTAGGTTGGCATTACAGGTCACATGAAGGTGTGTGGAAGTGGC  
CAGCATTCTGCCTGCAGACCTGAGCACTGAGTCAACAAGGTTTGTGATGATGTCTGTACTAGTTAGCTATTGTT  
ATTAACAAGATCTCCATGGCAGACAAGCTAAAGCATCTGCCTAAGTCGTGAGTCTGTGGGTGGCTCAGGTTAAG  
CTGAGCAGGTGGGGATCTCAGCCAGCCTCCAGACTGCACCTCTTCTATTGCTCTCCTCTGTCCACCGTTCAGG  
CAGCAGCACTCCACCTGGCTGCTCTGATGTCTCGCTCCCTCCATTCTGCTCTCACCATGCACGCATCCATT  
GTCCACACACACACAACCAGATAATCTTCTGAAAGTGTAACCTCAGATGATGCCTCCAACCCTGTGGCTGCCCTTC  
ACACTTACAGGCCTAACCCAGCAGGACCTGCCAGCTGCTTCATGAACAAGTCCCTGCCCTCATGTTAATTGCAAG  
CACTCATTTCACTCTCCCTGTGTGCCAGGCAATAGCATAAGCACTGGAAGAATACAGATGTTATAGTGAGTCCTA  
CAATAGCCCTGGAAGGCAAGAGCTGTTTCCCTTTCCATTTCTACAATGAGTCAATTGCAGATGATGCTATAACACT  
TCCAGTGTTTCTGACACTTCCCTGAAGCTATACCTGTACCTTCATGGGCCGAGCTTGCCCTTATGAGGCCCA  
GGTGGCAGTGGGCAGAGGGGACCCGCTATACCACCTCGCTGCTGTTCCACTGTCTGCTCCCGTGTCTGACCAC  
AGCTCTGGTGCCGTTTCTCAAGCCTGGGCTTCACTCAACATTTCTATCTAGCTCTTCAATGGTGTGCTCCTGCT  
ATGGTTCCACAGGGCTTCTTCTCGCAGGTGAGCTCCTTAGAGAGGTCTCCAGATTCCCGTAAAGCAGCCCTGC  
AGCCTCTGCCTCTCTCAGCCGCATCACCTGTTGCTTCCCTTCACAGCATGTCTCACCATCTGCAACCATCTTTCT  
GTTTGTGCTTGTGATTGCTGCCCTCCACACTGTGAGCTCCTTGGGAACAGAGATTGGTTTGTGTTACTGTGCA  
TCCCTGGTGCCCAAGACAGGGCATGGCATATTGTTGGTGCAATAAATATTGTGGAAT

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**FIGURE 2932**

MP EWPPCLSVAPALVITMAAGKGAPLSPSAENRWRLSEPELG RGCKPV LLEKTNRLGPEAAVGRAGRDVGS AELA  
LLVAPGKPRPGKPLPPKTRGEQRQSAFTELPRMKDRQVDAQA QEREHDDPTGQPGAPQLTQNIPRGPAGSKVFSV  
WPSGARSEQRS AF SKPTKRPAERPELTSVFPAGESADALGELSGLLNTTDLACWGRLSTPKLLVGD LWN LQALPQ  
NAPLCSTFLGAPTLWLEHTQAQVPPPPSSSSTTSWALLPPTLTSLGLSTQNWCAKCNLSFRLTSDLVFHMRSHHKK  
EHAGPDPHSQKRREEALACPVCQEHFRERHHLSRHMTSHS

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**FIGURE 2933**

GGCCTGCTCACTCCTCAGCTGCAGGAGCCAGACGTGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTCTTCATCTC  
CCTGGGAAAGGTGCCCCGAGGTGAAAGAGATGGCCTGGTGGAAATCCTGGATTGAACAGGAGGGTGTACAGTG  
AAGAGCAGCTCCCACITTAACCCAGACCCTGATGCAGAGACCCTCTACAAAGCCATGAAGGGGATCGGGACCAAC  
GAGCAGGCTATCATCGATGTGCTCACCAAGAGAAGCAACACGCAGCGGCAGCAGATCGCCAAGTCCTTCAAGGCT  
CAGTTTCGGCAAGGACCTCACTGAGACCTTGAAGTCTGAGCTCAGTGGCAAGTTTGAGAGGCTCATTGTGGCCCTT  
ATGTACCCGCCATACAGATACGAAGCCAAGGAGCTGCATGACGCCATGAAGGGCTTAGGAACCAAGGAGGGTGTG  
ATCATTGAGATCCTGGCCTCTCGGACCAAGAACCAGCTGCGGGAGATAATGAAGGCGTATGAGGAAGACTATGGG  
TCCAGCCTGGAGGAGGACATCCAAGCAGACACAAGTGGCTACCTGGAGAGGATCCTGGTGTGCCTCCTGCAGGGC  
AGCAGGGATGATGTGAGCAGCTTTGTGGACCCAGGACTGGCCCTCCAAGACGCACAGGATCTGTATGCGGCAGGC  
GAGAAGATTCTGGGACTGATGAGATGAAATTCATCACCATCCTGTGCACGCGCAGTGCCACTCACCTGCTGAGA  
GTGTTTGAAGAGTATGAGAAAATTGCCAACAAGAGCATTGAGGACAGCATCAAGAGTGAGACCCATGGCTCACTG  
GAGGAGGCCATGCTCACTGTGGTGAATGCACCCAAAACCTCCACAGCTACTTTGCAGAGAGACTCTACTATGCC  
ATGAAGGGAGCAGGGACGCGTGATGGGACCCTGATAAGAAACATCGTTTCAAGGAGCGAGATTGACTTAAATCTT  
ATCAAATGTCACITTAAGAAGATGTACGGCAAGACCCTCAGCAGCATGATCATGGAAGACACCAGCGGTGACTAC  
AAGAACGCCCTGCTGAGCCTGGTGGGCAGCGACCCCTGAGGCACAGAAGAACAAGAGCAAAGACCATGAAGCCAG  
AGTCTCCAGGACTCCTCACTCAACCTCGGCCATGGACGCAGGTTGGGTGTGAGGGGGGTCCCAGCCTTTCGGTCT  
TCTATTTCCCTATTTCCAGTGCTTTCAGCCGGGTTCTGACCCAGAGGGTGGAACCGGCTGGACTCCTCTTCC  
CAACTTCTCCAGGTCATTTCCAGTGTGAGCACAATGCCAACCTTAGTGTTTCTCCAGCCAGACAGATGCCTCA  
GCATGAAGGGCTTGGGACTTGTGGATCATTCTTCTCCTGCAGGAGCTTCCAAGCTGGTCACAGAGTCTCC  
TGGGCACAGGTTATACAGACCCCAAGCCCATTTCCATCTACTGAAACAGGGTCTCCACAAGAGGGGCCAGGGAAT  
ATGGGTTTTTAACAAGCGTCTTACAAAACACTTCTCTATCATGCAGCCGGAGAGCTGGCTGGGAGCCCTTTTGT  
TTAGAACACACATCCTTCAGCAGCTGAGAAACGAACACGAATCCATCCCAACCGAGATGCCATTAACATTCTCT  
AAAAATGTTAGGCTCTAAATGGACGAAAAATTCTCTCGCCATCTTAATAACAAAATAAACTACAAATTCCTGACC  
CAAGGACACTGTGTTATAAGAGGCGTGGGCTCCCCTGGTGGCTGACCAGGTCAGCTGCCCTGGCCTTGCACCCCT  
CTGCATGCAGCACAGAAGGGTGTGACCATGCCCTCAGCACCCTCTTGTCCTCACTGAACGGCAACTGAGACTGG  
GTACCTGGAGATTCTGAAGTGCCTTTGCTGTGGTTTTCAAAATAATAAAGATTGTATTCAACTC

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**FIGURE 2934**

GAATTTCCGTTTCCGGCGGTGTCCAAGCGGACCTAAGGAGTCGCAGTTGTGAACAGGTTAGAGTTACTTGTTATT  
GGTAAATAGCCACTATGGAGACTAAGGACCAGAAGAAACACAGAAAGAAAAACGGTGGACCCAAAGCTGCAAAGA  
AAAAGAAGTGGCATCTGCAGGATCTCCAGCTAGGAGACTAAGAAAAATGCCAGAAGAGAAATGCCAATGCTTTTG  
CAGTTCAGTCTGCTGTGTGGATGTCTCGATCCTTTCACAGGACTCTGGATTTGAAGACACAAAAGCATCATATTC  
CAGTGGTTGATGGAACCTCCACTAGAGCCGCCACCAATACCGGTAGTGGTGACGGGGCCTCCAAAGTTGGAAAGAG  
CACTTTGATATAATGCCTCATTTCGGAACCTTCACCTGGCAGAAGTTCACCGAGATCAGAGGCCCTGTGACGATCGT  
GTCAGGTAAAAAGCGCAGACTCACCATTATTGAATGTGGGTGTGACATTAACATGATGATTGATCTGGCTAAAGT  
AGCAGATCTGGTACTGATGCTTATAGATGCCAGCTTTGGGTTTGAAATGGAAATGTTTGAGTTTCTAAACATCTG  
TCAAGCACATGGCTTTTCTAAATTTCTGGGAGTTCTCACCCACCTCGACTCCTTCAAGCATAACAAGCAACTGAA  
GAAGACAAAGAAGCGATTAAAAACACAGGTTCTGGACAGAAGTTTACCAGGTTGCCAACTGTTCTACCTTTCTGG  
AATGGTGCATGGAGAATATCAAAACCAAGAAATCCACAATCTGGGCCATTTTATTACAGTTATGAAGTTTAGGCC  
TCTCATGGCAAACTTTTACCCCTTATATCTGGCAGACAGGATGGAAGATTTGACAAACCCGGAGGATATCCAAA  
CAAACATCAAATGTGACCGGCAGGTGTCACTTTATGGTTATTTAAGAGGAGCACACTTCAAAGATAAAAGCCAAA  
TTCACATGCCAGGACAAGGTGGGGCTCACCCATGAGCTGGTCCAGAGTCTCATCTCCACCTACTCCACCATTGAT  
GCCAAGATGGCTTCAAGTCGAGTGACGCTGCTTTCCAATTCAAACCACTTGGGTCAGAGGCTATAGATAATCAA  
GGGTAAGTCTGCTTTTTTTTCTATTTTAAATAAAAAGATATATTACAGAA

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**FIGURE 2935**

CGGGGGCGAGGGGGCGGCAGGCAGGTGTAGCGCTGCCCTGGGCGGGCTTGACCCCCACACCCAAGTGAGCGGCC  
TGCTCACTCCTCAGCTGCAGGAGCCAGACGTGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTCTTCATCTCCGTG  
AGAAAGGTGCCCCCGAAGTGAAAGAGATGGCTGGTGGAAAGCCTGGATTGAACAGGAGGGTGTACAGTGAAGA  
GCAGCTCCCACTTCAACCCAGACCCTGATGCAGAGACCCTCTACAAAGCCATGAAGGGGATCGGTGTGCGGTCCC  
AACTGCTCAGCCACCAAGCAGCTGCCTTCGCCTTCCCCTCCTCCGCCCTCACCAGTGTGTACCCCTGGGGGCAGC  
AGGGTCACTTGTGTGTGTAACCCTGCAGGGACCAACGAGCAGGCTATCATCGATGTGCTCACCAGAGAAGCAACA  
CGCAGCGGCAGCAGATCGCCAAGTCCTTCAAGGCTCAGTTCGGAAGGACCTCACTGAGACCTTGAAGTCTGAGC  
TCAGTGGCAAGTTTGTAGAGGCTCATTGTGGCCCTTATGTACCCGCCATACAGATACGAAGCCAAGGAGCTGCATG  
ACGCCATGAAGGGCTTAGGAACCAAGGAGGGTGTATCATTGAGATCCTGGCCTCTCGGACCAAGAACAGCTGC  
GGGAGATAATGAAGGCGTATGAGGAAGACTATGGGTCCAGCCTGGAGGAGGACATCCAAGCAGACACAAGTGGCT  
ACCTGGAGAGGATCCTGGTGTGCCTCCTGCAGGGCAGCAGGGATGATGTGAGCAGCTTGTGGACCCGGCACTGG  
CCCTCCAAGACGCACAGGATCTGTATGCGGCAGGCGAGAATATTCGTGGGACTGATGAGATGAAATTCATCACCA  
TCCTGTGCACGCGCAGTGCCACTCACCTGCTGAGAGTGTGTTGAAGAGTATGAGAAAATTGCCAACAGAGCATTG  
AGGACAGCATCAAGAGTGAGACCCATGGCTCACTGGAGGAGGCCATGCTCACTGTGGTGAAATGCACCCAAAAC  
TCCACAGTACTTTGCAGAGAGACTCTACTATGCCATGAAGGGAGCAGGGACGCGTGATGGGACCCTGATAAGAA  
ACATCGTTTCAAGGAGCGAGATTGACTTAAATCTTATCAAATGTCACTTCAAGAAGATGTACGGCAAGACCCCTCA  
GCAGCATGATCATGGAAGACACCAGCGGTGACTACAAGAACGCCCTGCTGAGCCTGGTGGGCAGCGACCCCTGAG  
GCACAGAAGAACAAGAGCAAAGACCATGAAGCCAGAGTCTCCAGGACTCCTCACTCAACCTCGGCCATGGACGCA  
GGTTGGGTGTGAGGGGGGTCCCAGCCTTTTCGGTCTTCTATTTCCCTATTTCCAGTGCTTTCCAGCCGGGTTCCTG  
ACCCAGAGGGTGGAAACCGGCCTGGACTCCTCTTCCCAACTTCCTCCAGGTCAATTTCCAGTGTGAGCACAATGCC  
AACCTTAGTGTCTTCCAGCCAGACAGATGCCTCAGCATGAAGGGCTTGGGGACTTGTGGATCATTCCTTCCTCC  
CTGCAGGAGCTTCCCAAGCTGGTCACAGAGTCTCCTGGGCACAGGTTATACAGACCCAGCCCCATTCCCATCTA  
CTGAAACAGGGTCTCCACAAGAGGGGCCAGGGAATATGGGTTTTTAACAAGCGTCTTACAAAACACTTCTCTATC  
ATGCAGCCGGAGAGCTGGCTGGGAGCCCTTTTGTGTTAGAACACACATCCTTCAGCAGCTGAGAAACGAACACGA  
ATCCATCCCAACCGAGATGCCATTAACTTCACTAAAAATGTTAGGCTCTAAATGGACGAAAAATTCTCTCGCC  
ATCTTAATAACAAAATAAACTACAAATTCCTGACCCAAGGACACTGTGTTATAAGAGGCGTGGGCTCCCTGGTG  
GCTGACCAGGTCAGCTGCCCTGGCCTTGACCCCTCTGCATGCAGCACAGAAGGGTGTGACCATGCCCTCAGCAC  
CACTCTTGTCCCACTGAACGGCAACTGAGACTGGGTACCTGGAGATTCTGAAGTGCCCTTGTGTGTTTTCAA  
AATAATAAGATTTGTATTCAACTC

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**FIGURE 2936**

MPKARQSPGARGRQAGVALPWAGLHPHTQVSGLLTPQLQEPDVWSPSRGQPVSLHLPKGGAPEVKEMAWWKSWE  
QEGVTVKSSSHFNPDPAETLYQAMKGIGVGSQLLSHQAAAFAPSSALTSVSPWGQQGHLCNPAGTNEQAIID  
VLTKRSNTQRQQIAKSFKAQFGKDLTETLKESELGKFERLIVALMYPPYRYEAKELHDAMKGLGTKEGVII EILA  
SRTKNQLREIMKAYEEDYGSSLEEDIQADTSGYLERILVCLLQGSRDDVSSFVDPGLALQDAQDLYAAGEKIRGT  
DEMKFITILCTRSATHLLRVFEEYEKIANKSIEDSIKSETHGSLEEAMLTVVKCTQNLHSYFAERLYYAMKGAGT  
RDGTLIRNIVSRSEIDLNLIKCHFCKMYGKTLSSMIMEDTSGDYKNALLSLVGSDP

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**FIGURE 2937**

GCTAATACTGAAATTGTCAGGTCGGTGTAACCTGTGACAGTCCGGAAGCAATGGAGGCTTCAGTGAGCAGGACCAG  
CTGCCTTTCTCACCACCACAGCTTGATCTCTCTCACAACCTTCCTCTCCACCTCCACTGACCTCTGGGTTGGTTTT  
CTCCTGCACGATCTTTCCACGTGTCAGGGGCCCTGGAGGCACCCCTACAAGAGCTGACTTTACATTTCCCTTCCTAGA  
GGTAATCCCAGAACAAAAGAGAGCAGTTTTATTATTTTTTTCAAGAGAATTAAATTGTTTATTGATTACACATG  
ATAATGGATGATACACAAGCTTCATTCCCATCTATAATTTAATCTGGTACCATTATTCAATTAGATATGTTACAT  
AGGATGTGCCAACAAATTACTTTTTATAACCAATAATTCCATGATTTTGCTTGGGTAATCCCTTTTAAATGGTGACTG  
AAATCATGACTGACCGAGTCAGTGGCTAGAAAAGGGGCTTTGCCTTTGTAACTTTTGATGACCATGACTCCGTCG  
ATAAGATTGTCATTTCAGAAATACCATACTGTGAATGACCACAACCTGTGAAGTTAGGAAAGCCCTGTCAAAGCAAG  
AGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGGTTCGTGGAGGTGGTT  
TCAGTGGGAATGACAACTTTGGTATTGGAGGAACTTCAGTGGTCTTGGTGGCTTTGGTGGCAGTCGTGGTGGTG  
GTGGATATGGTGGCAGTGGGGATGGCTGTAATGGATTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGAGCT  
ACAATGATTTTGGCAATTACAACAATGAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGAGGCAGAA  
GCTCTGGCCCCCTGTGGCAATGGAGGCCATATACTTTGCAAAACCATGAAACCAAGGTGGCTATTGGCGGTTCCAGC  
AGCAGCAGTAGCTATGGCAGTGGCAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAGAGCCAGAGAAATG  
ACAGGGAATCTACAGGTTACGACAGATTTGTGAACCTAGCCAAGCACAGTGGTGGCAGGGCCTAGCTGCTACAAA  
GAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTGTGACTAACTGTATAA  
CAGGTTATTTTAGTTTTCTGTCTGTGGGAAGTGTAAGCATTCCAGCTAAGGGTTTTAATATAGGTTTTTTTTTT  
GCACCCATGCTGTTGATTGCTAAATGTAATAGTCIGATCATGACGCTGAATAAATGTCTTTTGTTTAATGTGCT  
GTGTAAAGTTAGTTTACTCTGAAGCTATCTTGGTAAATTTCCCAACAGTGTGAAGTTAGAATTCCTTCAGGGTG  
ATGCCAAGTCTATTTGGAATTTATATACAACCTGCTTGGGTGGAGAAGCCATTGTCTTCAGAAACCTTTGGTGT  
AGTTGAACTGATAGTTACTGTTGTGACCTGAAG



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**FIGURE 2938**

MASASSQRGRSGSGNFGGGRGGGFSGNDNFGIGGNFSGLGGFGGSRGGGGYGGSGDGCNGFGNDGSNFGGGGSY  
NDFGNYNNESSNFGPMKGNFGGRSSGPCGNGGLYFAKP

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**FIGURE 2939**

GTCTGGGTGGGGCCTGGGAGCCACAGGAGATGCCCAAAGCCAGGCAGAGCCCGGGGGCGAGGGGACGGCAGGCAG  
GTGTGGCGCTGCCCTGGGCGGGCTTGCAACCCACACCCAAGTGAGCGGCCTGCTCACTCCTCAGCTGCAGGAGC  
CAGACGTGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTTTCATCTCCCTGGGAAAGGTGCCCCGAGGTGAAAG  
AGATGGCCTGGTGGAAATCCTGGATTGAACAGGAGGGTGTACAGTGAAGAGCAGCTCCCACTTCAACCCAGACC  
CTGATGCAGAGACCCTCTACCAAGCCATGAAGGGGATCGGGACCAACGAGCAGGCTATCATCGATGTGCTCACCA  
AGAGAAGCAACACGCAGCGGCAGCAGATGCCAAGTCCTTCAAGGCTCAGTTCGGCAAGGACCTCACTGAGACCT  
TGAAGTCTGAGCTCAGTGGCAAGTTTGAGAGGCTCATTGTGGCCCTTATGTACCCGCCATACAGATACGAAGCCA  
AGGAGCTGCATGACGCCATGAAGGGCTTAGGAACCAAGGAGGGTGTATCATTTAGATCCTGGCCTCTCGGACCA  
AGAACCAGCTGCGGGAGATAATGAAGGCGTATGAGGAAGACTATGGGTCCAGCCTGGAGGAGGACATCCAAGCAG  
ACACAAGTGGCTACCTGGAGAGGATCCTGGTGTGCCTCCTGCAGGGCAGCAGGGATGATGTGAGCAGCTTTGTGG  
ACCCAGGACTGGCCCTCCAAGACGCACAGGATCTGTATGCGGCAGGCGAGAAGATTTCGTGGGACTGATGAGATGA  
AATTCATCACCATCCTGTGCACGCGCAGTGGCACTCACCTGCTGAGAGTGTGTTGAAGAGTATGAGAAAATTGCCA  
ACAAGAGCATTGAGGACAGCATCAAGAGTGAGACCCATGGCTCACTGGAGGAGGCCATGCTCACTGTGGTGAAAT  
GCACCCAAAACCTCCACAGCTACTTTGCAGAGAGACTCTACTATGCCATGAAGGGAGCAGGGACGCGTGATGGGA  
CCCTGATAAGAAACATCGTTTCAAGGAGCGAGATTGACTTAAATCTTATCAAATGTCACTTCAAGAAGATGTACG  
GCAAGACCTCAGCAGCATGATCATGGAAGACACCAGCGGCGACTACAAGAACGCCCTGCTGAGCCTGGTGGGCA  
GCGACCCCTGAGGCACAGAAGAACAAGAGCAAAGACCATGAAGCCAGAGTCTCCAGGACTCCTCACTCAACCTCG  
GCCATGGACGCAGGTTGGGTGTGAGGGGGGTCCCAAGCCTTTCAGTCTTCTATTTCCTATTTCCAGTGCTTTCCA  
GCCGGGTTTCTGACCCAGAGGGTGGAAACCGGCCTGGACTCCTCTTCCCAACTCCTCCAGGTCAATTTCCAGTGT  
GAGCACAATGCCAACCTTAGTGTCTTCCAGCCAGACAGATGCCTCAGCATGAAGGGCTTGGGGACTTGTGGATC  
ATTCTTCTCCTCCCTGCAGGAGCTTCCCAAGCTGGTACAGAGTCTCCTGGGCACAGGTTATACAGACCCAGCCC  
CATTCCCATCTACTGAAACAGGGTCTCCACAAGAGGGGCCAGGGAATATGGGTTTTTAACAAGCGTCTTACAAAA  
CACTTCTCTATCATGCAGCCGGAGAGCTGGCTGGGAGCCCTTTTGTGTTTAGAACACACATCCTTCAGCAGCTGAG  
AAACGAACACGAATCCATCCCAACCGAGATGCCATTAACATTCTAAAAATGTTAGGCTCTAAATGGACGAAA  
AATTCTCTCGCCATCTTAATAACAAAATAAACTACAAATTCCTGACCCAAGGACACTGTGTTATAAGAGGCGTGG  
GCTCCCTGGTGGCTGACCAGGTGAGCTGCCCTGGCCTTGCAACCCCTCTGCAIGCAGCACAGAAGGGTGTGACCA  
TGCCCTCAGCACCACTCTTGTCCCCACTGAACGGCAACTGAGACTGGGTACCTGGAGATTCTGAAGTGCCTTTGC  
TGTGGTTTTCAAATAATAAAGATTTGTATTTC

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**FIGURE 2940**

MAWWKSWIEQEGVTVKSSSHFNPDPAETLYKAMKGIGTNEQAIIDVLTKRSTNRQQIAKSFKAQFGKDLTETL  
KSELSGKFERLIVALMYPYRYEAKELHDAMKGLGTKEGVIEILASRTKNQLREIMKAYEEDYGSSLEEDIQAD  
TSGYLERILVCLLQGSRDDVSSFVDPGLALQDAQDLYAAGEKIRGTDEMKFITILCTRSATHLLRVFEYEKIAN  
KSIEDSIKSETHGSLEEAMLTVVKCTQNLHSYFAERLYYAMKGAGTRDGTILRNIVSRSEIDLNLKCHFCKMYG  
KTLSSMIMEDTSGDYKNALLSLVGSDP

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**FIGURE 2941**

GAATTTCCGTTTCCGGCGGTGTCCAAGCGGACCTAAGGAGTCGCAGTTGTGAACAGGTTAGAGTTACTTGTATT  
GGTAAATAGCCACTATGGAGACTAAGGACCAGAAGAAACACAGAAAGAAAAACGGTGGACCCAAAGCTGCAAAGA  
AAAAGAAGTGGCATCTGCAGGATCTCCAGCTAGGAGACTAAGAAAATGCCAGAGAGAAATGCCAATGCTTTTG  
CAGTTCAGTCTGCTGTGTGGATGTCTCGATCCTTTCACAGGACTCTGGATTTGAAGACACAAAAGCATCATATTC  
CAGTGGTTGATGGAACCTCCACTAGAGCCGCCACCAATACCGGTAGTGGTGACGGGGCCTCCAAAGTTGAAAGAG  
CACTTTGATATAATGCCTCATTCGGAACCTTCACCTGGCAGAAGTTCACCGAGATCAGAGGCCCTGTGACGATCGT  
GTCAGGTAAAAGCGCAGACTCACCATTATTGAATGTGGGTGTGACATTAACATGATGATTGATCTGGCTAAAGT  
AGCAGATCTGGTACTGATGCTTATAGATGCCAGCTTTGGGTTTGAAATGGAATGTTTGAGTTTCTAAACATCTG  
TCAAGCACATGGCTTTTCTAAATTTCTGGGAGTTCTCACCCACCTCGACTCCTTCAAGCATAACAAGCAACTGAA  
GAAGACAAAGAAGCGATTAAACACAGGTTCTGGACAGAAGTTTACCAGGTTGCCAACTGTTCTACCTTTCTGG  
AATGGTGCATGGAGAATATCAAACCAAGAAATCCACAATCTGGGCCATTTTATTACAGTTATGAAGTTTAGGCC  
TCTCATGGCAAACCTTTTACCCTTATATCCTGGCAGACAGGATGGAAGATTTGACAAACCCGGAGGATATCCAAA  
CAAACATCAAAATGTGACCGGCAGGTGTCACTTTATGGTTATTTAAGAGGAGCACACTTCAAAGATAAAAGCCAAA  
TTCACATGCCAGGACAAGGTGGGGCTCACCCATGAGCTGGTCCAGAGTCTCATCTCCACCTACTCCACCATTGAT  
GCCAAGATGGCTTCAAGTCGAGTGACGCTGCTTTCCAATTCCAACCACTTGGGTCAGAGGCTATAGATAATCAA  
GGTAAGTCTGCTTTTTTTTCTATTTTAAATAAAAAGATATATTACAGAA

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**FIGURE 2942**

CGTGTGCACCCTAGCGTCAGCCTCGAGTTTGACCAGCAACAGGGGTCGGTGTGTCCCTCTGAATCTGAGATCTAT  
GAGGCAGTAGCTGGGGACAGGATGGCAGGAGCGCCCATGGCTGCTGCTGTGCAGCCTGCTGAGGTGACTGTTGAA  
GTTGGTGAGGACCTCCACATGCACCACGTTTCGTGACCGGGAGATGCCTGAAGCTTTGGAGTTTAACCTTTCTGCC  
AATCCAGAGGCAAGCACAATATTCCAGAGGAACTCTCAAACAGATGCTTTGGAGTTTAACCTTTCTGCCAATCCA  
GAGGCAAGCACAATATTCCAGAGGAACTCTCAAACAGATGGTGAGACGACATTGTTTTTCCGCCAAGAGAAAGA  
ATAAAAGCTCTTGTTTGATCAGGTT

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**FIGURE 2943**

MAGAPMAAAVQPAEVTVEVGEDLHMHVVRDREMPEALEFNLSANPEASTIFQRNSQIDALEFNPSANPEASTIFQ  
RNSQIDGETTLFFPPRERIKALV

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**FIGURE 2944**

GGTAAATAGCCACTATGGAGACTAAGGACCAGAAGAAACACAGAAAGAAAAACAGTGGACCCAAAGCTGCAAAGA  
AAAAGAAGTGGCATCTGCAGGATCTCCAGCTAGGAGACGAAGAAAATGCCCAGAAGAGAAATGCCAATGCTTTTG  
CAGTTCAGTCTGCTGTGTGGATGTCTCGATCCTTTACAGGACTCTGGATTGAAGACACAAAAGCATCATATTC  
CAGTGGTTGATGGAATCCACTAGAGCCGCCACCAATACCGGTAGTGGTGACGGGGCCTCCAAAGTTGGAAAGAG  
CACTTTGATATAATGCCTCATTTCGGAACCTCACCTGGCAGAAGTTACCGAGATCAGAGGCCCTGTGACGATCGT  
GTCAGGTAAAAAGCGCAGACTCACCATTATTGAATGTGGGTGTGACATTAACATGATGATTGATCTGGCTGAAGT  
AGCAGATCTGGTACTGATGCTTATAGATGCCAGCTTTGGGTTTGAAATGGAAATGTTTGAGTTTCTAAACATCTG  
TCAAGCACATGGCTTTTCCTAAAATTCTGGGAGTTCTCACCACCTCGACTCCTTCAAGCATAACAAGCAACTGAA  
GAAGACAAAGAAGCGATTAAAAACACAGGTTCTGGACAGAAGTTTACCAGGTTGCCAACTGTTCTACCTTTCTGG  
AATGGTGCATGGAGAATATCAAAACCAAGAAATCCACAATCTGGGCCATTTTATTACAGTTATGAAGTTTAGGCC  
TCTCATGGCAAACTTTTACCCCTTATATCCTGGCAGACAGGATGGAAGATTTGACAAAACCCGGAGGATATCCAAA  
CAAACATCAAATGTGACCGGCAGGTGTCACTTTATGGTTATTTAAGAGGAGCACACTTCAAAGATAAAAGCCAAA  
TTCACATGCCAGGACAAGGTGGGGCTCACCATGAGCTGGTCCAGAGTCTCATCTCCACCTACTCCACCATTGAT  
GCCAAGATGGCTTCAAGTCGAGTGACGCTGCTTTCCAATTCCAAACCACTTGGGTGAGAGGCTATAGATAATCAA  
GGGTAAGTCTGCTTTTTTTCTATTTTAAATAAAAAGATATATTACAGAA

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**FIGURE 2945**

ATGGGGCAGCCGAGAGAGTTCTGGCATCTCAGGTCCCAGGTTCCAGTTCCAACCTGCCACCTGCTCACC GTGCAG  
CCTTGGTGCTGCTTCCTCACCCACCCAGCTGGAGGGCGTGAGCGCAGGCACAGTGCTTCCTCCCTGCTTGCG  
GCTCTGTGCTGAGGAAGGCGGTTCTGCGGCCCATCTGCTGTCTGCTGGAGTTGGAGGGTGTGTGGTCCCTT  
TCCTCTGGGCGGATGAAGGCTCCCTTGAGGGGCGGCTGGCTCTGGGGACAGGGCCAGCTCCCACGAAGCTGCAG  
CTTCTCCATGACTGGCAGAGCGAGCCTGGGCGGAGTGGCTGGCAGCAAGGCCCTTCTCCGCCCTCTCTTCCCGGCA  
GGCACTTCCCTCGTCCAGCACCTGATGACCGTCTCATCCGCAAACACAGCCAGCTCTTACGGCACCGGTCCCG  
GAAGGGCCACCTCCCCGCGCGGGGGCTGCAATGCGCAGTGGGGTGGGGCTCCGAGGAGGTACACAGGGACAGC  
CAAGGAGAGCCCCGGCGGCCCGGCTGCCCGCGCACAGGACCTCTTCCCTGGACGGGGCGGCCGTGGCGGTGCTC  
TCCAGAACAGCCCCACGGGGCGGGGAGCCGGTGCAGCCCTGGGAAGAAGGTGCAGACCCTGCCAGTTGGAAG  
TCCTCCTTCCGGCAGCCGAGGTCCCTATCGGGAAGCCCGAAGGGGGCGGCTCATCCCTGGAGGTGCCCATCATC  
TCCTCCGGCGGGAAGTGGCTTATGAACGGGCTGTCTCCCTGCGCGGACACCGCCGGGCTCGTCGGGAGACCGG  
CTCAAGGACTCGGGCTCCGTGCAGAGACTCTCCACCTACGACAATGTGCCCGCGCCGGGCTGGTCCCCGGCATA  
CCCAGCGTGGCCAGTATGGCGTGGTCCGGGGCTCGTCCAGCGAGTCTGTCGGTGGGGGGCTCACTCAGCAGCTGC  
ACGGCCTGCCGCGCCAGCGACTCGTCTGCCCGCAGTTCCCTGCACACCGACTGGGCCCTGGAGCCCTCCCCGCTC  
CCCAGCAGCAGCGAGGACCCCAAGTCCCTGGACCTGGACCACAGCATGGACGAGGCGGGCGCGGGTGCCAGCAAC  
AGCGAGCCCGAGCGAGCCGACAGCCCCACCCGGGAACACGCGCGCCGCTCCGAGGCCTTACAGGGGCTGGTCACT  
GAGCTCAGGGCCGAGCTGTGCCCGCAGCGGACTGAGTACGAGAGGAGTGTGAAAAGAATCGAAGAAGGGAGTGCT  
GACCTGAGAAAACGAATGTCCCGGTTAGAAGAAGAACTGGACCAGGAAAAGAAAAATACATCATGCTGGAAATA  
AAGCTGCCGAACCTCTGAACGGGCGCGGAGGATGCGGAGAGGAGGAACCAGCTGTGTCAGAGGGAATGGAGGAG  
TTTTTTTCGACCCTAGGAAGCTTGACTGTTGGGGCAAAGGTGCCAGGGCCCCAAAGTAAAGGAATGGCAGAGC  
TCACTTCTGTACCACGTCTGCTGGTCTCCAGCCTTGATGGAGTTAGAAGCGTCTGTATCTCTGGAGCAGCCAGG  
CGCTCTGGAGCCAGCTGGAGAGAGAGATCCTGATACCTCTGTGGGACTGTGGGACTTTTGGGACCCACAC  
ACTCCAGGTGGGATCAGATGCTGCTCCAACCATGCAGTTCCCTGGTGAGGGTCAGAAGGGGACGGTACCAAGAGCA  
GCGCTTAGCCCTTACCCAGGAAATATCCTTCATGGCCACAGAAATGGAGGGCGCCAGGATCCAGGCAGCCACCG  
GGAACAGTCAGCTTTCTTTATTAATGTGCTCACAAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 2946**

MGQPREFWHLRSQVPVPTCHLLTVQPWCLLPHTPAGGRERRHSASSLLAALCLRKAVLRPHPAVLPGVGGCVVL  
SSGRMKAPLRGGIALGTGPAPTKLQLLDWQSEPGPSGWQQGPSPPLFPAGTSLVQHLMTVLIRKHSQLFAPVP  
EGFTSPRGGQLCAVGWGSEEVTRDSQGEPPGGPGLPAHRTSSLDGAAVAVLSRTAPTGPGRCSPPGKKVQTLPSWK  
SSFRQPRSLSGSPKGGSSLEVPIISSGGNWLMLGLSSLRGHRASSGDRDKDSGSVQRLSTYDNVPAPGLVPGI  
PSVAMAWSGASSSESSVGGSLSSCTACRASDSSARSSLHTDWALEPSPLPSSSEDPKSLDLDHSMDEAGAGASN  
SEPSEPDSPTRHARRSEALQGLVTELRAELCRQRTYERSVKRIEEGSADLRKRMSRLEEELDQEKKKYIMLEI  
KLRNSERAREDAERRNQLQREMEEFFSTLGSLTVGAKGARAPK

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FIGURE 2947

GGAGGAGGCAAGAGCCGACGCGAGGGGAGGGGAGCGCAGCGCGGGGCTAACGGGCGGGCAAGCGGGCGGGCGGC  
AACAGCATGTCCCTCGGCCAGCGCGGGCGGGCTCTTAGCGCGGGCGGGGCTGCTCTGGGCGCGCCCCGGGCGAAG  
TGCGCCAGTCTCCGGCCCCGGCCCCCTCGGCGCGCCGACTTCCCGGGCGCCCTGAGCCAGCAGCCGCGGGTC  
CCGGGATCGGCTAAGAGTAGCTGCAACGCCTCGCCGACGGAGTCCTTTCCTTTCGGGACGCTGGGCCATGAG  
CTCCGCGGGCCACCTGAGGCACAGGGGAGTCTGCTCGGCCAGGACAGCCTCCCCGAAGTCCCGCTGCCCTCGCCT  
CTGCACTGCGGGACGCCAGCGCTCGGCCCTGGCGGAGGCGTCTTCGGAAGAGCATCGGGGTGGGGGCATGGAATC  
CGCGGAACCTGCGGGCCAGGCCCGGGCGGGCCACCAAGCTGTGCGAGGCTGTGGGCGCGGCGCTGCAGGAGCC  
CCGGCGGCAGAGGCGCCTGGTGCTTGTTATCGTGTGCGTGGCGCTGTTACTGGACAACATGCTGTACATGGTCAT  
CGTGCCCATAGTGCCCGACTACATCGCCACATGCGCGGGGGCGGCGAGGGCCCCACCCGGACTCCCCGAGGTGTG  
GGAGCCCAACCTGCCGCTGCCACTCCGGCCAATGCCAGCGCCTACACGGCCAACACCTCGGCGTCCCCGACAGC  
TGCGTGGCCAGCGGGCTCAGCCCTTCGGCCCCGCTACCTACGGAGAGCGAAGACGTGAAGATCGGGGTGCTGTT  
TGCTTCCAAGGCTATCCTGCAGCTGCTAGTGAACCCCTTGAGCGGGCCCTTCATCGACCGCATGAGCTACGACGT  
GCCGCTGCTGATCGGCCGGGCGTCATGTTGCGCTCTACAGTCCTGTTGCGCTTCGCCGAGGACTACGCCACGCT  
GTTGCGGGCGCGCAGCCTGCAGGGCCTGGGCTCAGCCTTCGCCGACACGCTGCGCATAGCCATGATCGCCGATAA  
GTACCCGGAGGAGCCGGAGCGCAGTCTGCTGCACTGGGCGTGGCGCTGGCCTTCATTAGCTTCGGAAGCCTAGTGGC  
CCCCCCTTCGGGGGCATCCTCTATGAGTTCGCCGGCAAGCGCGTGCCCTTCTTGCTGCTAGCTGCCGTGTGCT  
CTTTGACGCGCTGTTGCTGCTGGCAGTGGCCAAACCCTTTCGGCGGCTGCACGGGCTCGGGCCAACCTGCCAGT  
GGGCACTCCCATCCACCGCCTCATGCTAGACCCCTACATTGCCGTGGTGGCCGGCGCGCTCACCACCTGTAAAT  
TCCCTCGCCTTCTTCGAACCCACCATTGCCACGTGGATGAAGCATACGATGGCGGCTTCGAGTGGGAGATGGG  
CATGGCCTGGCTGCCGGCCTTCGTGCCTCATGTGCTGGGCGTCTACCTCACCCTGCGCCTGGCGGCGCGCTACCC  
ACACCTGCAGTGGCTGTACGGCGCGCTTGGGCTGGCTGTGATCGGCGCCAGCTCGTGATCGTGCCCGCTGCCG  
CTCCTTCGCGCGCTAGTGGTCTCACTATGCGGCCTCTGTTTTGGCATAGCCCTAGTCGACACAGCACTGCTGCC  
CACGCTCGCCTTCTTGTTGGACGTGCGCCATGTCTCAGTCTATGGCAGCGTCTACGCCATCGCCGACATCTCCTA  
TTCGGTGGCTACGCGCTCGGGCCCATAGTGGCAGGCCACATTGTGCACTCGCTGGGCTTTGAGCAGCTCAGCCT  
TGGCATGGGACTGGCCAACCTGCTCTATGCTCCCGTCTTGCTGCTGCTCCGCAACGTGGGCTCCTGACGCGCTC  
CCGTTCCGAGCGGATGTGCTGCTTGATGAGCCACCGCAAGGTCTGTACGATGCGGTGCGCCTGCGTGAGCGTCC  
TGTGCTGCGCAGGACGGCGAGCCTCGCAGCCCCGCTGGCCCTTTGATGAGTGGGAGGACGACTACAACTACTA  
CTACACCCGCAGCTAGCATCCCCACTCCTCCTCCAGCCACCCAAACCGCCTTGGGTCAAGGGGGCTGCTCTGCAA  
GCCCAGTGGCCAGCTCTGGCTCAGGGCCACCTCCTCCAGCGAGTACCCAGCCACTCCTCAACCTTGACTTCTG  
CCCAAATCCCTCCCTGTGACCCGTTCCATATCCCTTCTCTTGTCCAATGGGGCTTGGAGCACCAGGCGCAG  
CGAAGCCATCGCGCTCCTTGCGGAGGTGAAGAGGACCCTGAGTCCCCACCTGCGGCTCCCTGTGTAGAGCCTGC  
ATCTGTCTGTCTTCTTCCATTGCTCCAGTGCCAAACTTGGGCGGCTGCACCGCGGCGCCTCCGCCCAAATCA  
ATAAACTGTGCTGTGCCAGG

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**FIGURE 2948**

MESAEPAGQARAAATKLSEAVGAALQEPRRQRRLVLVIVCVALLLDNMLYMVIVPIVPDYIAHMRGGGEGPTRTP  
EVWEPTLPLPTPANASAYTANTSASPTAAWPAGSALRPRYPTESEDEVKIGVLFASKAILQLLVNPLSGPFIDRMS  
YDVPLLIGLVMFASSTVLFafaedyatlfaarslqglgsafadtsgiamiadkypeepersralgvalafisfgs  
LVAPPFGGILYEFAGKRVFVLAAVSLFDALLLLAVAKPFSAAARARANLPVGTPIHRLMLDPYIAVVAGALT  
CNIPLAFLEPTIATWMKHTMAASEWEMGMAWLPAFVPHVLGVYLTVRLAARYPHLQWLYGALGLAVIGASSCIVP  
ACRSFAPLVVSLCGLCFGIALVDTALLPTLAFLVDVRHVSVYGSVYAIADISYSVAYALGPVAGHIVHSLGFEQ  
LSLGMGLANLLYAPVLLLLLRNVGLLTRSRSERDVLLDEPPQGLYDAVRLRERPVSQDGEPRSPPGPFDECEDDY  
NYYYTRS

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**FIGURE 2949**

GGCACGAGCTCGGCTCCTGGAAAGATGGAGGCAGCGGAGACAGAGGCGGAAGCTGCAGCCCTAGAGGTCCTGGCT  
GAGGTGGCAGGCATCTTGGAACCTGTAGGCCCTGCAGGAGGAGGCAGAACTGCCAGCCAAGATCCTGGTTGAGTTT  
GTGGTGGACTCTCAGAAGAAAGACAAGCTGCTCTGCAGCCAGCTTCAGGTAGCGGATTTCTGCAGAACATCCTG  
GCTCAGGAGGACACTGCTAAGGGTCTCGACCCCTTGGCTTCTGAAGACACGAGCCGACAGAAGGCAATTGCAGCT  
AAGGAACAATGGAAAGAGCTGAAGGCCACCTACAGGGAGCACGTAGAGGCCATCAAAATTGGCCTCACCAAGGCC  
CTGACTCAGATGGAGGAAGCCCAGAGGAAACGGACACAACCTCCGGAAGCCTTTGAGCAGCTCCAGGCCAAGAAA  
CAAATGGCCATGGAGAAACGCAGAGCAGTCCAGAACCAGTGGCAGCTACAACAGGAGAAGCATCTGCAGCATCTG  
GCGGAGGTTTCTGCAGAGGTGAGGGAGCGTAAGACAGGGACTCAGCAGGAGCTTGACAGGGTGTTTCAGAACTT  
GGAAACCTGAAGCAGCAGGCAGAACAGGAGCGGGACAAGCTGCAGAGGTATCAGACCTTCTCCAGCTTCTGTAT  
ACCCTGCAGGGTAAGCTGTTGTTCCCTGAGGCTGAGGCTGAGGCAGAGAATCTTCCAGATGATAAACCCAGCAG  
CCGACTCGACCCAGGAGCAGAGTACAGGAGACACCATGGGGAGAGACCCTGGTGTGTCCTTCAAGGCTGTTGGT  
CTACAACCTGCTGGAGATGTAAATTTGCCATGACTTCTTGGAGGACAGCAGCATGGAGAAAGATCCTAGAAAAGG  
TCAGACCCAACTCAGGCCTTGGTGTCCCTGGACTGCAAGTGTGGAAGGAGGGAAAGCCTGGTTTACCTCTCTCTG  
CATCTGAGCTCTGCTACCCATGGAGCAGATGGATGGTGGGAACAGGAAAGAGCTTATGTTACACCTCATTCCCAT  
GCTTAGCCCAACCCAGAGCTAACCCTGTCTTCTTCCCCAGGCCTCTGACTTCCCTCACCTCCCAACCATCATTAC  
AGGAAAGACTGTGAACCTCTGAGTTCAGCTTGATTCTGACTACATCCCAGCAAGCTCTGGCATCTGTGGATTAA  
AATCCCTGGATCTCTCTCAGTTGTGTATTTGTTTCATCTTCATATGCTGGCAGGAACAACCTATTAATACAGATACT  
CAGAAGCCAATAACATGACAGGAGCTGGGACTGGTTTGAACACAGGGTGTGCAGATGGGGAGGGGTACTGGCCT  
TGGGCCTCCTATGATGCAGACATGGTGAATTTAATCAAGGAGGAGAGAATGTTTTAGGCAGGTGGTTATATGT  
GGGAAGATAATTTTATTCATGGATCCAAATGTTTGTGAGTCCTTTGTGCTAAGGTTCTTGCGGTGAACCAGAA  
TTATAACAGTGAGCTCATCTGACTGTTTTAGGATGTACAGCCTAGTGTTAACATTCTTGGTATCTTTTTGTGCCT  
TATCTAAAACATTTCTCGATCACTGGTTTCAGATGTTCAATTTATTATATTCTTTTCAAAGATTTCAGAGATTGGCT  
TTTGTCACTCACTATTGTATGTTTTGTTTCATTGACCTCTAGTGATACCTTGATCTTCCCACTTTCTGTTTTCG  
GATTGGAGAAGATGTACCTTTTTTGTCAACTCTTACTTTTATCAGATGATCAACTCACGTATTTGGATCTTTATT  
TGTTTTCTCAAATAAATATTTAAGGTTAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2950**

MEAAETEAEAAALEVLAEVAGILEPVGLQEEAELPAKILVEFVVD SQKKDKLLCSQLQVADFLQNILAQEDTAKG  
LDPLASEDTSRQKAIAAKEQWKELKATYREHVEAIKIGLTKALTQMEEAQRKRTQLREAFEQLQAKKQMAMEKRR  
AVQNQWQLQQEKHLQH LAEVS AEVRERKTGTQQELDRV FQKLG NLKQQAEQERDKLQRYQTFLQLLYTLQGKLLF  
PEAEAEAENLPDDKPQQPTRPQE QSTGDTMGRDPGV SFKAVGLQPAGDVNLP

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**FIGURE 2951**

GATCGCGGAGTCGGTGCTTTAGTACGCCGCTGGCACCTTTACTCTCGCCGGCCGCGCGAACCCGTTTGAGCTCGG  
TATCCTAGTGCACACGCCTTTGCAAGCGACGGCGCCATGAGTCTGACTTCCAGTTCAGCGTACGAGTTGAATGG  
ATCGCAGCAGTTACCATTGCTGCTGGGACAGCTGCAATTGGTTATCTAGCTTACAAAAGATTTTATGTTAAAGAT  
CATCGAAATAAAGCTATGATAAACCTTCACATCCAGAAAGACAACCCCAAGATAGTACATGCTTTTGACATGGAG  
GATTTGGGAGATAAAGCTGTGTACTGCCGTTGTTGGAGGTCCAAAAAGTTCCTTCTGTGATGGGGCTCACACA  
AAACATAACGAAGAGACTGGAGACAATGTGGGCCCTCTGATCATCAAGAAAAAGAACTTAAATGGACACTTTT  
GATGCTGCAAATCAGCTTGTCGTGAAGTTACCTGATTGTTTAATTAGAATGACTACCACCTCTGTCTGATTACCC  
TTCGCTGGATTCTAAATGTGGTATATTGCAAACCTGCAGCTTTCACATTTATGGCATTGTCTTGTTGAAACATCG  
TGGTGCACATTGTTTAAACAAAAAAAAAAAAAAAA

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**FIGURE 2952**

MSLTSSSSVRVEWIAAVTIAAGTAAIGYLAYKRIFYVDHRNKAMINLHIQKDNPKIVHAFDMEDLGDKAVYCRW  
RSKKFFFCGHAHTKHNEETGDNVGPLIIKKKET

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**FIGURE 2953**

GGAAAGAAGGCCAAGGGAAAGAAGGTGGTTCGGGCCCTGCTGTCATGAAGAAGCAGGAGGCTAAGAAAGTGGTG  
AATCCCCTGTTTGAGAAACGGCCTAAGAATTTGGCATTGGACAGGACATCCAGCCCAAAGACACTTCACCCGC  
TTTGTGAAATGGCCCTGCTATATCAGGTTGCAGCGGCAGAGAGCCATCCTCTATAAGGGGCTGAAAGTGCCTCCT  
GCGATTAACCAAGTTCACCCAGGCCCTGGACCGCCAAACAGCTACTCAGCTGCTTAAGCTGGCCCACAAGTACAGA  
CCAGAGACAAAAGACACTTTGGCTAAGCTGGTGGGAAGCTATCAGGACCAATTACAACGACAGATACAGATACGAT  
GAGATCCGCTGTCACTGGGGCAGCAACGTCTGGGTCTAAGTCCGTGGCTCGTATCGCCAAGCTCGAAAAGGCA  
AAGGCTAAAGAAGTGGCCACTAACTGGGTAAATGTACACTGTTGAGTTTTCTGTACATAAAAAATAATTAAAT  
AA



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**FIGURE 2954**

MKKQEAKKVVNPLFEKRPKNFGIGQDIQPKRHFTRFVKWPCYIRLQRQRAILYKGLKVPPAINQFTQALDRQTAT  
QLLKLAKHYRPETKDTLAKLVEAIRTNYNDRYRYDEIRCHWGSNVLGPKSVARIAKLEKAKAKELATKLG

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**FIGURE 2955**

CCGTTGTGGCGAGCGCTACACGAGGCAAACGACTTCTCCCTTCTTTGAACTGGACCCCGGAGCACCAGAGTCGG  
CGTAACTATCGCCTGACAGGCATTAAATCAAACGGTATTGAGATGGATTGGGTTATGAAACATAATGGTCCAAA  
TGACGCTAGTGATGGGACAGTACGACTTCGTGGACTACCATTGGTTGCAGCAAAGAGGAAATAGTTCAGTTCTT  
TCAAGGGTTGGAAATCGTGCCAAATGGGATAACATTGACGATGGACTACCAGGGGAGAAGCACAGGGGAGGCCTT  
CGTGCACTTTGCTTCAAAGGAGATAGCAGAAAATGCTCTGGGGAACACAAGGAAAGAAATAGGGCACAGGTATAT  
TGAGATCTTCAGAACTAGCAGGAGTGAAATCAAAGGATTTTATGATCCACCAAGAAGATTGCTGGGACAGCGACC  
GGGACCATATGATAGACCAATAGGAGGAAGAGGGGTTATTATGGAGCTGGGCGTGGAGTATGTATGACAGAAT  
GCGACGAGGAGGTGATGGATATGATGGTGGTTATGGAGGTTTTGATGACTATGGTGGCTATAATAATTACGGCTA  
TGGGAATGATGGCTTTGATGACAGAATGAGAGATGGAAGAGGTATGGGAGGACATGGCTATGGTGGAGCTGGTGA  
TGCAAGTTCAGGTTTTCATGGTGGTCAATTCGTACATATGAGAGGGTTGCCTTTTTCGTGCAACTGAAAATGACAT  
TGCTAATTTCTTCTCACCCTAAATCCAATACGAGTTCATATTGATATTGGAGCTGATGGCAGAGCCACAGGAGA  
AGCAGATGTAGAGTTTGTGACACATGAAGATGCAGTAGCTGCCATGTCTAAAGATAAAAAATAACATGCAACATCG  
ATATATTGAACTCTTCTGAATTTCTACTCCTGGAGGCGCTCTGGCATGGGAGGTTCTGGAATGGGAGGCTACGG  
AAGAGATGGAATGGATAATCAGGGAGGCTATGGATCAGTTGGAAGAATGGGAATGGGGAACAAATTACAGTGGAGG  
ATATGGTACTCCTGATGGTTTGGGTGGTTATGGCCGTGGTGGTGGAGGCACTGGAGGTTACTATGGGCAAGCGCG  
CATGAGTGGAGGTGGATGGCGTGGGATGTACTGAAAGCAAAAAACCAACATACAAGTCTTGACAACAGCATCTG  
GTCTACTAGACTTTCTTACAGATTTAATTTCTTTTGTATTTTAAAGAACTTTATAATGACTGAAGGAATGTGTTTT  
CAAAATATTATTTGGTAAAGCAACAGATTGTGATGGGAAAATGTTTTCTGTAGGTTTATTTGTTGCATACTTTGA  
CTTAAAAATAAATTTTTATATTCAAACCACTGATGTTGATACTTTTTATATACTAGTTACTCCTAAAGATGTGCT  
GCCTTCATAAGATTTGGGTGATGATTTTACTATTAGTTCTACAAGAAGTAGTGTGGTGAATTTTAGAGGATA  
ATGGTTCACCTCTGCGTAAACTGCAAGTCTTAAGCAGACATCTGGAATAGAGCTTGACAAATAATTAGTGTAAC  
TTTTTCTTTAGTTCCCTCCTGGACAACACTGTAAATATAAAGCCTAAAGATGAAGTGGCTTCAGGAGTATAAATC  
AGCTAATTATTTCTATATTATTTTCAAATGTCAATTTATCAGGCATAGCTCTGAAACATTGATGATCTAAGA  
GGTATTGATTTCTGAATATTCTAATTTGTGTTACCTGGGTATGAGAGTGTGGAGCTGAATTTAGCCCTAGAT  
TTTGGAGTAAAACCCCTTCAGCACTTGACCGAAATACCAAAAATGTCTCCAAAAAATTGATAGTTGCAGGTTATC  
GCAAGATGTCTTAGAGTAGGGTTAAGGTTCTCAGTGACACAAGAATTCAGTATTAGTACATAGGTATTTACTAT  
GGAGTATAAATCTCACAATTGTATTTTCAAGTTTTCTGCCCAATAGAGTTTAAATAACTGTATAAATGATGACTTT  
AAAAAATGTAAGCAACAAGTCCATGTCTAGTCAATAAAAACAAATCCTGCAGTTGGGTTTTGTATCTGATCCCT  
GCTTGGAGTTTTAGTTTAAAGAACTATATGTAGCAAGGAAAAGGTGCTTTTTAATTTAATCCCTTTGATCAAT  
ATGGCTTTTTTCCAAATTTGGCTAATGGATCAAAATGAAACCTGTTGATGTGAATTCAGTTATTGAACCTGTTACT  
TGTTTTTGCCAGAAATGTTATTAATAAATGTCAATGTGGGAGATAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2956**

MDWVMKHNGPNDASDGTVRLRGLPFGCSKEEIVQFFQGLEIVPNGITLTMDYQGRSTGEAFVQFASKEIAENALG  
KHKERIGHRYIEIFRSSRSEIKGFYDPPRLLGQRP GPYDRPIGGRGGYYGAGRGS MYDRMRGGDGYDGGYGGF  
DDYGGYNNYGYGNDGFDDMRDGRGMGGHGYGGAGDASSGFHGGHFVHMRGLPFRATENDIANFFSPLNPIRVHI  
DIGADGRATGEADVEFVTHEDAVAAMSKDKNNMQHRYIELFLNSTPGGGSGMGGSGMGGYGRDGM DNQGGYGSVG  
RMGMGNYSGGYGTPDGLGGYGRGGGSGGYYGQGGMSGGGWGRMY

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**FIGURE 2957**

GCATGGCCAAGGCCGGGCGGCCGCTTGCCCCGCTTCCTTTACGCTGTCGCTGCCCCGTAGGTGGTTGTGGCCA  
CTGTGCCCCGAGGGAGGCGGCGGTGGCCAGTAATGCCTGGGAAACTCCTCTGGGGGGACATTATGGAGCTGGAAG  
CACCCTTGGAGGAGTCCGAGAGCCAGAAGAAGGAGAGGCAAAAGAGTGACAGAAGGAAGTCAAGGCACCATTATG  
ACTCGGATGAGAAATCAGAAACAAGAGAAAATGGTGTACAGATGACCTGGATGCTCCCAAGGCCAAAAAATCTA  
AAATGAAAGAGAAGCTAAATGGAGACACTGAAGAAGGATTTAATAGACTTTTCAGATGAATTCTCCAAATCTCATA  
AGTCAAGAAGAAAAGATCTACCAAATGGAGATATAGATGAATATGAAAAAATCAAAGCGAGTATCATCTTTAG  
ATACTTCTACTCATAAATCAAGTGATAATAAACTAGAGGAGACCTTAACACGTGAACAGAAAGAAGGAGCCTTCT  
CCAATTTTCTATTCTGAAGAGACTATAAAGCTTCTGAAAGGTCGAGGGGTAACATATCTCTTTCTATTCAAG  
TTAAGACCTTTGGTCCTGTATATGAAGGAAAAGATTTAATAGCTCAAGCACGGACAGGAACAGGAAAGACATTCT  
CTTTTGCCATCCCCTTAATTGAAAGACTCCAAAGAAATCAAGAAACAATTAATAAAGCCGCTCACCAAAGGTAC  
TTGTTTTGGCTCCAACAAGGGAAGTGGCAAACCAAGTAGCCAAAGACTTCAAAGATATAACTAGGAAACTCAGCG  
TGGCGTGTTTTTATGGTGAACATCATATCAAAGCCAAATTAATCATATTGAAATGGTATTGACATCTTGGTTG  
GAACACCTGGTCGTATCAAAGACCATCTGCAGAGTGGCCGATTGGATCTTTCTAAACTGCGACATGTTGTGCTTG  
ATGAAGTGGATCAGATGTTAGATTAGGTTTCGCTGAACAAGTTGAAGATATTATTCATGAATCCTACAAAAGT  
ATTCTGAAGACAATCCTCAGACTTTACTTTTTTCTGCAACTTGCCACAGTGGGTATACAAAGTTGCAAAAAAT  
ACATGAAATCCAGATATGAACAGGTTGACCTTGTGGAAAAATGACTCAAAAGGCTGCAACTACTGTGGAACATT  
TGGCCATCCAGTGTCAATTGGTCTCAGAGGCCAGCAGTTATTGGAGATGTCTTCAAGTCTACAGTGGGTCTGAAG  
GGAGGGCTATTATTTCTGTGAGACCAAGAAGAATGTAAGTGAATGGCCATGAATCCACACATAAAACAGAATG  
CCCAGTGTTTACATGGGGACATTGCACAGTCACAAAGAGAAATTACACTAAAAGGCTTCAGAGAAGGTAGTTTTA  
AAGTTTTGGTGGCAACCAATGTGGCTGCCCCGTGGTTTGGACATTCTGAAAGTTGACCTGGTGATTCAAAGTTCTC  
CTCCTCAGGATGTTGAGTCCTATATCCATCGCTCTGGACGCACAGGTAGAGCTGGACGGACAGGGATTTGTATAT  
GTTTTTATCAACCAAGAGAAAGAGGTCAACTAAGATATGTGGAACAAAAAGCAGGAATTACTTTTAAACGTGTAG  
GTGTCCTTCTACAAATGGATTTAGTTAAATCTAAAAGCATGGATGCCATCAGGTCTCTGGCTTCCGTTTCTTATG  
CTGCTGTTGATTTTTTCCGACCATCAGCTCAGAGACTGATAGAAGAGAAAGGTGCAGTGGATGCATTGGCTGCAG  
CTTTAGCCACATTTCTGGTGCATCAAGCTTTGAACCACGATCTTTGATCACCTCTGATAAGGGGTTTGTGACCA  
TGACTCTGGAAAGCCTAGAGGAAATACAGGATGTCAGCTGTGCTTGGAAAGAACTTAACAGAAAGCTGAGTAGTA  
ATGCAGTGTCTCAGATTACCAGAATGTGCTCCTGAAAGGAAATATGGGTGTTTGCTTTGATGTTCTTACAAGT  
AGTCAGAAAGGTTACAGGCAGAGTGGCATGATTCCGACTGGATACTCTCAGTGCCAGCCAAATTACCTGAAATTG  
AAGAATATTATGATGGAAACACATCTTCTAATTCAGACAGAGGAGTGGCTGGTCAAGTGGTGCATCAGGCCGGT  
CAGGCCGGTCAAGGTGGTCGATCTGGCGGCCGGTCAAGTAGACAGAGTCGACAAGGAAGTCGCTCAGGAAGTCGAC  
AAGATGGTAGAAGACGAAGTGGGAATAGAAATCGATCAAGAAGTGGGGGCCACAAACGGAGTTTTGACTGAGTAT  
TTGATAGTTAATCTACCAAGTGTGAGCTTGCTATTTCTGCCTAATCATGTACATTATCCACCAAAAATTAGGTCA  
TCATAGTTGAGGTATGTGTCTGCTATTTGCAAAGAAGTTGGTCGTATTTTTTAAAAAGTATTTACAAGAATGG  
AACAAATCTACTTATCCAGTTATACCTTTGAATAAAAAAACCTCCTTTTATTGTCTCTTTTCAAAAAA  
AAAAA



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**FIGURE 2959**

CTACCTCTTCCTCTCCACGCGGTTGAGAAGACCGGTGCGCTGGGCAACCTGCGCTGAAGATGCCGGGAAAACCTC  
CGTAGTGACGCTGGTTTGGAAATCAGACACCGCAATGAAAAAGGGGAGACACTGCGAAAGCAAACCGAGGAGAAA  
GAGAAAAAAGAGAAGCCAAAATCTGATAAGACTGAAGAGATAGCAGAAGAGGAAGAAACTGTTTTCCCAAAGC  
TAAACAAGTTAAAAAGAAAGCAGAGCCTTCTGAAGTTGACATGAATTCCTAAATCCAAAAAGGCCAAAAAGAA  
AGAGGAGCCATCTCAAAATGACATTTCTCCTAAAACCAAAGTTTGAGAAAGAAAAAGGAGCCCATTTGAAAAGAA  
AGTGGTTTCTTCTAAAACCAAAGAGTGACAAAAATGAGGAGCCTTCTGAGGAAGAAATAGATGCTCCTAAGCC  
CAAGAAGATGAAGAAAGAAAAGGAAATGAATGGAGAACTAGAGAGAAAAGCCCCAACTGAAGAATGGATTTC  
TCATCCTGAACCGGACTGTAACCCAGTGAAGCTGCCAGTGAAGAAAGTAACAGTGAGATAGAGCAGGAAATACC  
TGTGGAACAAAAAGAAGGCGCTTTCTCTAATTTTCCCATATCTGAAGAACTATTAACTTCTCAAAGGCCGAGG  
AGTGACCTTCCTATTTCTATACAAGCAAAGACATTCATCATGTTTACAGCGGGAAGGACTTAATTGCACAGGC  
ACGGACAGGAAGTGGGAAGACATTCTCCTTTGCCATCCCTTTGATTGAGAACTTCATGGGGAAGTCAAGACAG  
GAAGAGAGGCCGTGCCCTCAGGTACTGGTTCTTGCACCTACAAGAGAGTTGGCAAATCAAGTAAGCAAAGACTT  
CAGTGACATCACAAAAAGCTGTCTAGTGGCTTGTGTTTATGGTGGAACTCCCTATGGAGGTCAATTTGAACGCAT  
GAGGAATGGGATTGATATCCTGGTTGGAACACCAGGTGCTATCAAAGACCACATACAGAATGGCAAAGTAGATCT  
CACCAACTTAAGCATGTTGTCTGGATGAAGTGGACCAGATGTTGGATATGGGATTGCTGATCAAGTGGGAAGA  
GATTTTAAGTGTGGCATAACAAGAAAGATTCTGAAGACAATCCCCAAACATTGCTTTTTTCTGCAACTTGCCCTCA  
TTGGGTATTTAATGTTGCCAAGAAATACATGAAATCTACATATGAACAGGTGGACCTGATTGGTAAAAAGACTCA  
GAAAACGGCAATAACTGTGGAGCATCTGGCTATTAAGTGCCACTGGACTCAGAGGGCAGCAGTTATTGGGGATGT  
CATCCGAGTATATAGTGGTCATCAAGGACGCACTATCATCTTTTGTGAACCAAGAAAGAGCCAGGAGCTGTC  
CCAGAATTCAGCTATAAAGCAGGATGCTCAGTCCTTGATGGAGACATTCACAGAAGCAAAGGGAAATCACCCCT  
GAAAGGTTTTAGAAATGGTAGTTTTTGGAGTTTTTGGTGGCAACCAATGTTGCTGCACGTGGGTTAGACATCCCTGA  
GGTTGATTTGGTTATACAAAGCTCTCCACCAAAGGATGTAGAGTCTTACATTTCATCGATCCGGGCGGACAGGCAG  
AGCTGGAAGGACGGGGGTGTGCATCTGCTTTTATCAGCAACAAGGAAGAAATATCAGTTAGTACAAGTGGAGCAAAA  
AGCGGGAATTAAGTTCAAACGAATAGGTGTTTCTTCTGCAACAGAAATAATAAAAGCTTCCAGCAAAGATGCCAT  
CAGGCTTTTGGATTCCGTGCCTCCCACTGCCATTAGTCACTTCAAACAATCAGCTGAGAAGCTGATAGAGGAGAA  
GGGAGCTGTGGAAGCTCTGGCAGCAGCACTGGCCCATATTTAGGTGCCACGTCCGTAGACCAGCGCTCCTTGAT  
CAACTCAAATGTGGGTTTTGTGACCATGATCTTGCAGTGCTCAATTGAAATGCCAAATATTAGTTATGCTTGGAA  
AGAAGTTAAAGAGCAGCTGGGCGAGGAGATTGATTCCAAAGTGAAGGGAAATGGTTTTTCTCAAAGGAAAGCTGGG  
TGTTTGCTTTGATGTACCTACCGCATCAGTAACAGAAATACAGGAGAAATGGCATGATTACAGACGCTGGCAGCT  
CTCTGTGGCCACAGAGCAACCAGAACTGGAAGGACCAGGGAAGGATATGGAGGCTTCAGGGGACAGCGGGAAGG  
CAGTCGAGGCTTCAGGGGACAGCGGGACGGAAACAGAAGATTAGAGGACAGCGGGAAGGCAGTAGAGGCCCGAG  
AGGACAGCGATCAGGAGGTGGCAACAAAAGTAACAGATCCCAAAACAAAGGCCAGAAGCGGAGTTTCAGTAAAGC  
ATTTGGTCAATAAATAGAAATAGAAGATTTATATAGCAAAAAGAGAATGATGTTGGCAATATAGAACTGAACAT  
TATTTTTCATGCAAAGTTAAAAGCACATTGTGCCTCCTTTGACCACTTGCCAAGTCCCTGTCTCTTTCAGACAC  
AGACAAGCTTCATTTAAATTATTTTCATCTGATCATTATCATTATACTTTATTGTTACTTTCATCAGTTTTTCCT  
TTTGAAAGGTGTATGAATTCATTACATTTTATTCTAATGTATTATCTGTAGATTAGAAGATAAAATCAAGCATG  
TATCTGCCTATACCTTGTGAGTTCACCTGTCTTTATACTCAAAAGTGTCCTTAATAGTGTCTTCCCTGAAATA  
AATACCTAAGGGAGTGAACAGTCTCTGGAGGACCCTTTGAGCCTTTGGGAAGTTAAGGTTTCCCTCAGCCACCTG  
CCGAACAGTTTCTCATGTGGTCTATTATTTGTCTACTGAGACTTAATACTGAGCAATGTTTTGAAACAAGATTT  
CAAATAATCTGGGTTGTAATACAGTTTATACCAGTGTATGCTCTAGACTTGAAGATGTAGTATGTTTGATGTG  
GATTACCTATACTTATGTTGTTTTGATACATTTTATAGCTTCTCATTATAAGGTGATTTCATGCTTTAGTGAATTC  
TTCATAGATAGTATATATAAAAGTACATTTTAATAGAAAGCCAGGGTTTTAAGGAATTTACATGTATAAGGTGG  
CTCCATAGCTTTATTTGTAAGTAGGCTGGATAAATGGTGCTTAAATGGTAATGTACTCCACTTCTTCTATTGGA  
AGATTAACATTATTTACCAAGAAGGACTTAAGGGAGTAAGGGGCGCAGATTAGCATTGCTCAAGAGTATGTAAAA  
AAAAAAAAAAAAAAAAAAAA

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**FIGURE 2960**

MNSPKSKKAKKKEEPSQNDISP KTKSLRKKKEPIEKKVSSKTKKVTKN EEPSEEEIDAPKPKMKKEKEMNGET  
REKSPKLKNGFPHPEPDCNPSEAASEESNSEIEQEIPVEQKEGAFSNFPISEETIKLLKGRGVTF LFP IQAKTFH  
HVYSGKDLIAQARTGTGKTF SFAIPLIEKLHGELQDRKRGRAPQVLVLAPTRELANQVSKDFSDITKKLSVACFY  
GGTPYGGQFERMRNGIDILVGTPGRIKDHIQNGKLDLTKLKHVV LDEV DQMLDMGFADQVEEILSVAYKKDSEDN  
PQTLLFSATCPHWVFNVAKKYMKSTYEQVDLIGKKTQKTAITVEHLAIKCHWTQRAAVIGDVIRVYSGHQGR TII  
FCETKKEAQELSONSAIKQDAQSLHGDIPQKQREITLKGFRNGSFGVLVATNVAARGLDIPEVDLVIQSSPPKDV  
ESYIHRSGRTGRAGRTGVCICFYQHKEEYQLVQVEQKAGIKFKRIGVPSATEI IKASSKDAIRLLDSVPPTAISH  
FKQSAEKLIEEKGAVEALAAALAHISGATSVDQRSLINSNVGFVTMILQCSIEMPNISYAWKELKEQLGEEIDSK  
VKGMVFLKGKLGVCFDVPTASVTEIQEKWHD SRRWQLSVATEQPELEGPREGYGGFRGQREGSRGFRGQORDGNRR  
FRGQREGSRGPRGQRSGGKNKSNRSQNGKQKRSFSKAFGQ

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**FIGURE 2961**

GAATTCCGCTAGACTAAGTTGGTCATGATGCAGAAGCTACTCAAATGCAGTCGGCTTGCTCTGGCTCTTGCCCTC  
ATCCTGGTTCTGGAATCCTCAGTTCAAGTTATCCTACGCAGAGAGCCAGGTACCAATGGGTGCGCTGCAATCCA  
GACAGTAATTCTGCAAACCTGCCCTTGAAGAAAAAGGACCAATGTTTGAAGTACTTCCAGGTGAATCCAACAAGATC  
CCCCGCTCTGAGGACTGACCTTTTTTCCAAAGACGAGAATCCAGGACTTGAATCGTATCTTCCCACTTTCTGAGGAC  
TACTCTGGATCAGGCTTCGGCTCCGGCTCCGGCTCTGGATCAGGATCTGGGAGTGGCTTCCTAACGGAAATGGAA  
CAGGATTACCAACTAGTAGACGAAAGTGATGCTTTCCATGACAACCTTAGGTCTCTTGACAGGAATCTGCCCTCA  
GACAGCCAGGACTTGGGTCAACATGGATTAGAAGAGGATTTTATGTTATAAAAGAGGATTTTCCCACTTGACAC  
CAGGCAATGTAGTTAGCATATTTTATGTACCATGTTATATGATTAATCTTGGGACAAAGAATTTTATAGAAATT  
TTAAACATCTGAAAAAGAAGCTTAAGTTTTATCATCCTTTTTTTTCTCATGAATTCTTAAAGGATTATGCTTTA  
ATGCTGTTATCTATCTTATTGTTCTTGAAAATACCTGCATTTTTTGGTATCATGTTCAACCAACATCATTATGAA  
ATTAATTAGATTCCCATGGCCATAAAATGGCTTTAAAGAATATATATATATTTTTAAAGTAGCTTGAGAAGCAAA  
TTGGCAGGTAAATTTTATACCTAAATTAAGACTCTGACTTGGATTGTGAATTATAATGATATGCCCCTTTTCTT  
ATAAAAACAAAAAAAATAATGAACACAGTGAATTTGTAGAGTGGGGTATTTGACATATTTTACAGGGTGGA  
GTGTACTATATACTATTACCTTTGAATGTGTTTGACAGAGCTAGTGGATGTGTTTGTCTACAAGTATGATTGCTGT  
TACATAACACCCCAAATTAACCTCCCAAATTAACACAGTTGTGCTGTCAATACCTCATACTGCTTTACCTTTTT  
TTCTGGATATCTGTGTATTTTCAAATGTTACTATATATTAAGCAGAAATATAACC



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**FIGURE 2962**

MMQKLLKCSRLVLALALILVLESSVQGYPTQRARYQWVRCPDSNSANCLEEKGPMFELLPGESNKIPRLRTDLF  
PKTRIQDLNRIFPLSEDYSGSGFGSGSGSGSGSGSGFLTEMEQDYQLVDESDAFHDNLRSLDRNLPSDSQDLGQH  
GLEEDFML

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**FIGURE 2963**

GAACGCCGGTGGCGGGGCTGGTAGCCCGGCAGCCGCAGGTGGGGCCACGAGCGCTGGCTGAGGGACCGAGCCGGA  
GAGCCCCGGAGCCCCCGTAACCCGCGCGGGGAGCGCCAGGATGCCGCGCGGGGACTCGGAGCAGGTGCGCTACT  
GCGCGCGCTTCTCCTACCTCTGGCTCAAGTTTCACTTATCATCTATTCCACCGTGTCTGGCTGATTGGGGCCC  
TGGTCCTGTCTGTGGGCATCTATGCAGAGGTGAGCGGCAGAAATATAAAACCCCTGAAAGTGCCCTCCTGGCTC  
CAGCCATCATCCTCATCCTCCTGGGCGTCGTCATGTTTCATGGTCTCCTTCATTGGTGTGCTGGCGTCCCTCCGTG  
ACAACCTGTACCTTCTCCAAGCATTTCATGTACATCCTTGGGATCTGCCTCATCATGGAGCTCATTGGTGGCGTGG  
TGGCCTTGACCTTCCGGAACCAGACCATTGACTTCCTGAACGACAACATTGGAAGAGGAATTGAGAACTACTATG  
ATGATCTGGACTTCAAAAACATCATGGACTTTGTTTCAGAAAAAGTTCAAGTGCTGTGGCGGGGAGGACTACCGAG  
ATTGGAGCAAGAATCAGTACCACGACTGCAGTGCCCTTGGACCCCTGGCCTGTGGGGTGCCCTACACCTGCTGCA  
TCAGGAACACGACAGAAGTTGTCAACACCATGTGTGGCTACAAAATATCGACAAGGAGCGTTTCAGTGTGCAGG  
ATGTCATCTACGTGCGGGGCTGCACCAACGCCGTGATCATCTGGTTTCATGGACAACCTACACCATCATGGCGGGCA  
TCCTCCTGGGCATCCTGCTTCCCCAGTTCTGGGGGTGCTGCTGACGCTGCTGTACATCACCCGGGTGGAGGACA  
TCATCATGGAGCACTCTGTCACTGATGGGCTCCTGGGGCCCGTGCCAAGCCCAGCGTGGAGGCGGCAGGCACGG  
GATGCTGCTTGTGCTACCCCAATTAGGGGCCAGCCTGCCATGGCAGCTCCAACAAGGACCGTCTGGGATAGCACC  
TCTCAGTCAACATCGTGGGGCTGGACAGGGCTGCGGCCCCCTCTGCCCACACTCAGTACTGACCAAGCCAGGGCT  
GTGTGTGCTGTGTGTAGGTCCCACGGCTCTGCCTCCCCAGGGAGCAGAGCCTGGGCCTCCCTTAAGAGGCTTT  
CCCCGAGGCAGCTCTGGAATCTGTGCCACCTGGGGCCTGGGGAACAAGGCCCTCCTTTCTCCAGGCCTGGGCTA  
CGGGGGAGGGAGAGCCTGAGGCTCTGCTCAGGGCCCATTTTCATCTCTGGCAGTGCCCTGGCGGTGGTATTCAAGG  
CAGTTTTGTAGCACCTGTAATTGGGGAGAGGGAGTGTGCCCTCGGGGCAGGAGGGAAGGGCATCTGGGGAAGGG  
CAGGAGGGAAGAGCTGTCCATGCAGCCACGCCCATGGCCAGGTTGGCCTCTTCTCAGCCTCCCAGGTGCCCTTGAG  
CCCTCTTGCAAGGGCGGCTGCTTCCTTGAGCCTAGTTTTTTTTACGTGATTTTTGTAAACATTCATTTTTTGTACA  
GATAACAGGAGTTTCTGACTAATCAAAGCTGGTATTTCCCGCATGTCTTATTCTTGCCCTTCCCCCAACCAGTT  
TGTTAATCAAACAATAAAAACATGTTTTTTTTT

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**FIGURE 2964**

GGGCTCTCTCCTTGTCTAGTCGGCGCCGCGTGC GGGCTGGTGGCTCTGTGGCAGCGCGCGGCAGGACTCCGGCA  
CTATGAGCGGCTTCAGCACCGAGGAGCGCGCGGCCCTTCTCCCTGGAGTACCGAGTCTTCCTCAAAAATGAGA  
AAGGACAATATATATCTCCATTTCATGATATTCCAATTTATGCAGATAAGGATGTGTTTCACATGGTAGTTGAAG  
TACCACGCTGGTCTAATGCAAAAATGGAGATTGCTACAAAGGACCCTTTAAACCCTATTAAACAAGATGTGAAAA  
AAGGAAAACCTCGCTATGTTGCGAATTTGTTCCCGTATAAAGGATATATCTGGAACCTATGGTGCCATCCCTCAGA  
CTTGGGAAGACCCAGGGCACAATGATAAACATACTGGCTGTTGTGGTGACAATGACCCAATTGATGTGTGTGAAA  
TTGGAAGCAAGGTATGTGCAAGAGGTGAAATAATTGGCGTGAAAGTTCTAGGCATATTGGCTATGATTGACGAAG  
GGGAAACCGACTGGAAAGTCATTGCCATTAATGTGGATGATCCTGATGCAGCCAATTATAATGATATCAATGATG  
TCAAACGGCTGAAACCTGGCTACTTAGAAGCTACTGTGGACTGGTTTAGAAGGTATAAGGTTTCTGATGGAAAAAC  
CAGAAAATGAGTTTGC GTTTAATGCAGAATTTAAAGATAAGGACTTTGCCATTGATATTATTAAGCACTCATG  
ACCATTGGAAAGCATTAGTGACTAAGAAAACGAATGGAAAAGGAATCAGTTGCATGAATACAACTTTGTCTGAGA  
GCCCCCTTCAAGTGTGATCCTGATGCTGCCAGAGCCATTGTGGATGCTTTACCACCACCTGTGAATCTGCCTGCA  
CAGTACCAACAGACGTGGATAAGTGGTTCCATCACCAGAAAACTAATGAGATTTCTCTGGAATACAAGCTGATA  
TTGCTACATCGTGTTCATCTGGATGTATTAGAAGTAAAAGTAGTAGCTTTTCAAAGCTTTAAATTTGTAGAACTC  
ATCTAACTAAAGTAAATTTCTGCTGTGACTAATCCAATATACTCAGAAATGTTATCCATCTAAAGCATTTCATAT  
CTCAACTAAGATAACTTTTAGCACATGCTTAAATATCAAAGCAGTTGTCATTGGAAAGTCACTTGTGAATAGATG  
TGCAAGGGGAGCACATATTGGATGTATATGTTACCATATGTTAGGAAATAAAATTATTTTGCTGAAAAAAAAA  
AAAAAA

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**FIGURE 2965**

MSGFSTEERAAPFSLEYRVFLKNEKGQYISPFHDIPIYADKDV FHMVVEVPRWSNAKMEIATKDPLNPIKQDVKK  
GKLRYVANLFYKGYIWNYGAIPTWEDPGHNDKHTGCCGDNDPIDVCEIGSKVCARGEIIGVKVLGILAMIDEG  
ETDWKVIAINVDDPDAANYNDINDVKRLKPGYLEATVDWFRRYKVPDGKPENEF AFNAEFKDKDFAIDI IKSTHD  
HWKALVTKKTNGKGISCMNTTLES PFKCDPDAARAIVDALPPPCESACTVPTD VDKWFHHQKN

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FIGURE 2966A

ATGAGCTGCTCAAGGCTCATTACACGTTGGGCCGGCTCTCGGACAACACCCCTGAGCACTACCTGGTGCAAGGCC  
GCTACTTCTGGTGCGGGATGTCACCTGAGAAGATGGATGTGCTGGGCACCGTGGGAAGCTGTGGGGCCCCAACT  
TCCGGCAGGTGCAGGGTGGGCTCACTGTGTTCCGGCATGGGACAGCCCAGCCTCTCAGGGTTCAGGCGGGTCTCC  
AGAACTCCAGAAGGACGGACATAGGGAGTGTGTCTCTGTGTGCGGGAGGAACCTGTGCTTTTCTGCGTG  
CAGATGAGGACTTTGTGTCCTACACCTCGAGACAAGCAGAACCTTCATGAGAACCTCCAGGGCCTTGGACCCG  
GGGTCCGGGTGGAGAGCCTGGAGCTGGCCATCCGGAAGAGATCCACGACTTTGCCAGCTGAGCGAGAACACAT  
ACCATGTGTACCATAACACCGAGGACCTGTGGGGGGAGCCCCATGCTGTGGCCATCCATGGTGAGGACGACTTGC  
ATGTGACGGAGGAGGTGTACAAGCGGCCCTCTTCTGTCAGCCACCTACAGGTACCACCGCTGCCCTGCCCG  
AGCAAGGGAGTCCCCTGGAGGCCAGTTGGACGCCTTTGTGAGTGTCTCCGGGAGACCCCGAGCCTGTGTCAGC  
TCCGTGATGCCACGGGCTCCCCAGCCCTCGTCTTACAGTGCCAGATGGGCGTGGGCAGGACCAACCTGGGCA  
TGGTCTTGGGCACCTCATCTGCTTACCAGCAGTGGGACCACTCCAGCCAGAGGCTGCCCCACGCAGGCCA  
AGCCCTGCTATGGAGCAGTTCCAGGTGATCCAGAGCTTCTCCGCATGGTGCCCCAGGGAAGGAGGATGGTGG  
AAGAGGTGGACAGAGCCATCACTGCCTGTGCCGAGTGTGATGACCTGAAAGAAGTGGTCTTGGAAAACAGAAGA  
AGTTAGAAGGTATCCGACCGGAGAGCCAGCCAGGGAAGCGGCAGCCGACACAGCGTCTGGCAGAGGGCGCTGT  
GGAGCCTGGAGCGATACTTCTACCTGATCTGTTAACTACTACCTTCATGAGCAGTACCCGCTGGCCTTTGCC  
TCAGTTTACCGCTGGCTGTGTGCCACCCCTGAGCTGTACCGCTGCCCGTGACGCTGAGCTCAGCAGGCCCTG  
TGGTCCGAGGGACCTCATCGCCAGGGGCTCCCTACGGGAGGACGATCTGGTCTCCCGGACGCGCTCAGCACTG  
TCAGAGAGATGGATGTGGCAACTTCCGGCGGGTGGCCCGCATGCCATCTACGGCACGGCCAGCCAGCGCCA  
AGGCCCTGGGAGCATCTTGGCCTACCTGACGGACGCCAAGAGGAGGCTGCGGAAGGTTGTCTGGGTGAGCCTTC  
GGGAGGAGGCCGTGTGGAGTGTGACGGGCACACCTACAGCCTGCGGTGGCTGGGCCCCCTGTGGCTCTTGACC  
AGCTGGAGACCTGGAGGCCAGCTGAAGGCCATCTAAGCGAGCCTCCCCAGGCAAGGAGGGCCCCCTGACCT  
ACAGGTTCCAGACCTGCCTTACCATGACAGGAGTCTTACGCCAGCACCGCAGGGCCTGTCTGGCCTCACCTACC  
ACCGCATCCCCATGCCGACTTCTGTGCCCCCGAGAGGAGGACTTTGACCAGCTGCTGGAGGCCCTGCGGGCCG  
CCCTCTCAAGGACCCAGGCACTGGCTTCGTGTTTCACTGCTCAGCGGCCAGGGCCGTACCACAACCTGCGATGG  
TGGTGGCTGTCTGGCCTTCTGGCACATCAAGGCTTCCCCGAGGTGGGTGAGGAGGAGCTCGTGAGTGTGCTG  
ATGCCAAGTTCACTAAGGGTGAATTTAGGTAGTAATGAAGGTGGTGCAGCTGCTACCCGATGGGCACCGTGTGA  
AGAAGGAGGTGGACGCAGCGCTGGACACTGTGACGAGACCATGACGCCCATGCACTACCACCTGCGGGAGATCA  
TCATCTGCACCTACCGCCAGGCGAAGGCAGCGAAAGAGGCGCAAGAAATGCGGAGGCTGCAGCTGCGGAGCCTG  
AGTACTTGGAGCGCTATGTCTGCCTGATTCTCTTCAACGCGTACCTCCACCTGGAGAAGGCCGACTCCTGGCAGA  
GGCCCTTACGACCTGGATGCAGGAGGTGGCATCGAAGGCTGGCATCTACGAGATCCTTAACGAGCTGGGCTTCC  
CCGAGCTGGAGAGCGGGGAGGACAGCCCTTCTCCAGGCTGCGCTACCGGTGGCAGGAGCAGAGCTGCAGCCTCG  
AGCCCTTGTCCCCGAGGACTTGTGTAGGGGGCCTTACTCCCTGTCCCCCACCACAGGGCCCCACGCAGGCC  
TGGGTGTCTGAGGTGCTTGTGGCTGGGAGCGGCCCTGAGGGGTGCTGGCCTTGAAATGATTCCCCCACTTCTCG  
GAGAGACTGAGCGGAGTTGGGAGCCTTTTTAGAAAGAACTTTTTATAGGACAGGGAGACAGCACAGCCATCCCTT  
GCAAACCACCAAGGTGTGTGGCTGACCTCCAGGGAGGAGCACTCACTGGAGTGTCTACAAGGTGCACACTGCTGT  
GTGTACCTTGCAGACAGGCCGGCGTTACGCTTCAAGGGGCTCACTCCCCAGTTGCCAAACACTGTGGATCTCT  
CTGTCTCTTCTCCCCCTCTCTCAGATTGGCTTGGCAGCCCTGGCACAGAGCAGACCCGGCCACTGGTAGCTCCC  
CACTTCTTACTCTGCTGCTCTGCCATTGCCGCTCCCCCTGTTGCTGCCAAGCACTGCCCTCGGGCGTCTGGC  
AGCCTGAGGTGGGTGGAGGGGACAGTGTCTGGATAGATCTATTATGTGAAAGGCAGCTTACCCAGTTTCTGG  
ACTCTCATGCCCCCATCTCCGACCTGGGAGACTTCAGGAATGACAACCTACCCAGCCTGGTGGGGCTGGCAGGAT  
GGTGGAGGTTTCTCAAGGAGCTGGAGACTTCAGGGAGCCCCCTCTCATGGGGAGGAAAGAGCTTCCAGGGGGCGAA  
CGCAGCACAGAGGAAGAGGCTGCTCCACTGTCTGGGAACCTGGGCAGGAGGCACAGAGGAAGCCAAGGCCTGG  
AGCTGCAGGTCCCCCGCATCTCTCTGTCCCGCAGCCAGGATGGCCTGGTGGCCCCACCTGCTGCAGCAGG  
AGCCCCAAGGAGTGCTAGCTGAGGGTGGTTGCTGGGGTGGTCTCATGGACAGTGAGGTGTGAAGGGTGCAGTG  
AGGGTGGTGGGAGGGGATCACCTGGGTTCCAGGCCATCCTTGTGAGCATCTTTGAGCCTGCCTTCCGGTGGGAG  
CAGAAAAGGCCAGACCTGCTGAGTTAGAGGTGCTGGGATCCACTGTTTCCACACAGCGGAAGGCTGCTGGGA  
ACAGGTGGCAGAGAAGTGCCATGTTTGGCTTGGCCTTGCAGCTCTTCCAGCTGGGGACTGGTGTGCTGAAAC  
CCAGGAGCTGAACAGTGAGGAGGCTGTCCACCTTGTCTGGCTCACTGGGACCAGGAAAGCCTGTCTTGGTTAGG

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**FIGURE 2966B**

CTCGTGTA CTCTGCAGGAAAAAAAAAAGGATGTGTCATTGGTCATGATATTTGAAAAGGGGAGGAGGCCGAA  
GTTGTTCCCATTTATCCAGTATTGGAAAATATTTGACCCCTTGGCTGAATTCTTTTGCAAGTACTGTGTGTC  
TGTTCACTACCTTTTCAGGTTTATTGTTTTATTTTTCATGAATTAAGACGTTTTAATTTCTTTGCAGACAAGG  
TCTAGATGCGGAGTCAGAGATGGGACTGAATGGGGAGGGATCCTTTGTGTTCTCATGGTTGGCTCTGACTTTCAG  
CTGTGTTGGGACCACTGGCTGATCACATCACCTCTCTGCCCTCAGTTTCCCATCTGTAAAATGGGAGAATAATAC  
TTGCCTACCTACCTCACAGGGGTGTTGTGAGGATTCAATTTGTGATTTTTTTTTTTTTTTTGTACAGAGCTTTTAAGC  
ATTAAAAACAGCTAAATGTG

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**FIGURE 2967**

MGTTASTAQQTVSAGTPFEGLQGSGTMDSRHSVSIHSFQSTSLHNSKAKSIIPNKVAPVVITYNCKEEFQIHDEL  
LKAHYTLGRLSDNTPEHYLVQGRYFLVRDVTEKMDVLGTVGSCGAPNFRQVQGGLTVFGMGQPSLSGFRRVLQKL  
QKDGHRECVIFCVREEPVLFLEADEDFVSYTPRDKQNLHENLQGLGPGVRVESLELAIRKEIHDFQLSENTYHV  
YHNTEDLWGEPHAVAIGHEDDLHVTEEVYKRPLFLQPTYRYHRLPLPEQGSPLAQLDQFVSVLRETPSLLQLRD  
AHGPPPALVFSCQMGVGRTNLGMVLGTLILLHRSGTTSQPEAAPTQAKPLPMEQFQVIQSFLRMVPQGRRMVEEV  
DRAITACAEHLHDLKEVVLENQKKLEGIRPESPAQSGSGRHSVWQRALWSLERYFYLIILFNYYLHEQYPLAFALSF  
SRWLCAHPELYRLPVTLSAGPVAPRDLIARGSLREDDLVSFDPALSTVREMDVANFRRVPRMPIYGTAPSAKAL  
GSILAYLTDKRRRLRKVVVWVSLREEAVLECDGHTYSLRWPGPPVAPDQLETLEAQLKAHLSEPPPGKEGPLTYRF  
QTCLTMQEVFSQHRRACPLTYHRIPMPDFCAPREEDFDQLEALRAALSKDPGTGFVFSCLSGQGRTTTAMVVA  
VLAFWHIQGFPEVGEEELVSVPDAKFTKGEFQVVMKVQQLLPDGHVRVKEVDAALDTVSETMTMPMHYHLREIIIC  
TYRQAKAAKEAQEMRRLQLRSLQYLERVCLILFNAYLHLEKADSWQRPFSTWMQEVASKAGIYEILNELGFPEL  
ESGEDQPFPSRLRYRWQEQSCSLEPSAPEDLL

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**FIGURE 2968**

CCGCCGTCTAGCGCCCCGACCTCGCCACCATGAGAGCCCTGCTGGCGCGCCTGCTTCTCTGCGTCCTGGTCGTGA  
GCGACTCCAAAGGCAGCAATGAACTTCATCAAGTTCCATCGAACTGTGACTGTCTAAATGGAGGAACATGTGTGT  
CCAACAAGTACTTCTCCAACATTCACTGGTGCAACTGCCCAAAGAAATTCGGAGGGCAGCACTGTGAAATAGATA  
AGTCAAAAACCTGCTATGAGGGGAATGGTCACTTTTACCGAGGAAAGGCCAGCACTGACACCATGGGCCGGCCCT  
GCCTGCCCTGGAACTCTGCCACTGTCCTTCAGCAAAACGTACCATGCCACAGATCTGATGCTCTTCAGCTGGGCC  
TGGGGAAACATAATTACTGCAGGAACCCAGACAACCGGAGGCGACCCTGGTGCTATGTGCAGGTGGGCCTAAAGC  
TGCTTGTCCAAGAGTGCATGGTGCATGACTGCGCAGATGGAAAAAGCCCTCCTCTCCTCCAGAAGAATTAAAT  
TTCAGTGTGGCCAAAAGACTCTGAGGCCCCGCTTTAAGATTATTGGGGGAGAATTCAACCACCATCGAGAACAGC  
CCTGGTTTTCGGCCATCTACAGGAGGCACCGGGGGGGCTCTGTCACTACGTGTGTGGAGGCAGCCTCATCAGCC  
CTTGCTGGGTGATCAGCGCCACACACTGCTTCATTGATTACCCAAAGAAGGAGGACTACATCGTCTACCTGGGTC  
GCTCAAGGCTTAACCTCCAACACGCAAGGGGAGATGAAGTTTGAGGTGGAAAACCTCATCTACACAAGGACTACA  
GCGCTGACACGCTTGCTCACCACAACGACATTGCCTTGCTGAAGATCCGTTCCAAGGAGGGCAGGTGTGCGCAGC  
CATCCCGGACTATACAGACCATCTGCCTGCCCTCGATGTATAACGATCCCCAGTTTGGCACAAGCTGTGAGATCA  
CTGGCTTTTGAAAAGAGAATTCTACCGACTATCTCTATCCGGAGCAGCTGAAAATGACTGTTGTGAAGCTGATTT  
CCCACCGGGAGTGTGAGCAGCCCCACTACTACGGCTCTGAAGTCACCACCAAAATGCTGTGTGCTGCTGACCCAC  
AGTGGAACACAGATTCTGCCAGGGAGACTCAGGGGGACCCCTCGTCTGTTCCTCCAAGGCCGATGACTTTGA  
CTGGAATTGTGAGCTGGGGCCGTGGATGTGCCCTGAAGGACAAGCCAGGCGTCTACACGAGAGTCTCACACTTCT  
TACCCTGGATCCGAGTCACACCAAGGAAGAGAATGGCTGGCCCTCTGAGGGTCCCCAGGGAGGAACGGGCAC  
CACCCGCTTTCTTGCTGGTTGTCAATTTTGCAGTAGAGTCATCTCCATCAGCTGTAAGAAGAGACTGGGAAGATA  
GGCTCTGCACAGATGGATTGTGCTGTGCCACCCACCAGGGCGAAGCACAATAGCTTTACCCTCAGGCATAGGCCT  
GGGTGCTGGCTGCCAGACCCCTCTGGCCAGGATGGAGGGGTGGTCTGACTCAACATGTTACTGACCAGCAACT  
TGCTTTTTTCTGGACTGAAGCCTGCAGGAGTTAAAAAGGGCAGGGCATCTCCTGTGCATGGGTGAAGGGAGAGCC  
AGCTCCCCGACGGTGGGCATTTGTGAGGCCCATGGTTGAGAAATGAATAATTTCCCAATTAGGAAGTGTAAACAG  
CTGAGGTCTCTTGAGGGAGCTTAGCCAATGTGGGAGCAGCGGTTTGGGGAGCAGAGACACTACGACTTCAGGGC  
AGGGCTCTGATATTCCATGAATGTATCAGGAAATATATATGTGTGTGTATGTTTGCACACTGTGTGTGGGCTGT  
GAGTGTAAGTGTGAGTAAGAGCTGGTGTCTGATTGTTAAGTCTAAATATTTCCCTTAACTGTGTGGACTGTGATG  
CCACACAGAGTGGTCTTTCTGGAGAGGTTATAGGTCACTCCTGGGGCCTCTTGGGTCCCCACGTGACAGTGCCT  
GGGAATGTATTATTCTGCAGCATGACCTGTGACCAGCACTGTCTCAGTTTCACTTTCACATAGATGTCCCTTTCT  
TGGCCAGTTATCCCTTCCTTTTAGCCTAGTTCATCCAATCCTCACTGGGTGGGGTGAGGACCACTCCTGTACACT  
GAATATTTATATTTCACTATTTTTATTATATTTTTGTAAATTTAAATAAAAGTGATCAATAAAATGTGATTTT  
CTGA



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**FIGURE 2969**

MRALLARLLLCVLVVSDSKGSNELHQVPSNCDCLNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKSKTCYEGNG  
HFYRGKASTDTMGRPCLPWNSATVLQQTYHAHRSDALQLGLGKHNYCRNPDNRRRPWCYVQVGLKLLVQECMVHD  
CADGKKPSSPPEELKFQCGQKTLRPRFKIIGGEFTTIENQPWFAAIYRRHRGGSVTYVCGGSLISPCWVISATHC  
FIDYPPKEDYIVYLGRSRLNSNTQGEMKFEVENLILHKDYSADTLAHNDIALLKIRSKEGRCAQPSRTIQTICL  
PSMYNDPQFGTSCIEITGFKENSTDYLYPEQLKMTVVKLISHRECQPHYYGSEVTTKMLCAADPQWKTDSCQGD  
SGGPLVCSLQGRMTLTGIVSWGRGCALKDKPGVYTRVSHFLPWIRSHSTKEENGLAL

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**FIGURE 2970**

GCGGATCATCCGCTTCCGGAGTCGAGGTTTTCGGGCTTGTACCGCTTGGCGGTGCGGCCTGGTGTCGGCTTGCAG  
GTTCTTTCTGTGTTTGTCTCTGCCCTGCCAAGGCCGTAGAGCTGGTGCGTGCGGGTAGCGGGGCTCTCCGAGGA  
GCCGCACGCCGGCGGGCACCATGGTCCACCTCACTACTCTCTCTGCAAGGCCTACCGTGGGGGCCACTTAACCAT  
CCGCCTTGCCCTGGGTGGCTGCACCAATCGGCCGTTCTACCGCATTGTGGCTGCTCACAACAAGTGTCCCAGGGA  
TGGCCGTTTCGTAGAGCAGCTGGGCTCCTATGATCCATTGCCCAACAGTCATGGAGAAAACTCGTTGCCCTCAA  
CCTAGACAGGATCCGTCATTGGATTGGCTGCGGGGCCACCTCTCTAAGCCTATGGAAAAGCTTCTGGGTCTTGC  
TGGCTTTTTCCCTCTGCATCCTATGATGATCACAATGCTGAGAGACTGCGAAGGAAACGGGCACGTGAAGTCCT  
GTTAGCTTCTCAGAAAACAGATGCAGAAGCTACAGATACAGAGGCTACAGAAACATAAATGAGCTGACTTTAGTG  
AGCATAGCAGTGGGAACAAGGTCAAGGTCCTTTGAAACACTGCAGCGATCTTAATTTTGTTAGATTTGGAGTTC  
AATAAATGGAGTATCCTG

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**FIGURE 2971**

GCAGCAGGCCAAGGGGGAGGTGCGAGCGTGGACCTGGGACGGGTCTGGGCGGCTCTCGGTGGTTGGCACGGGTTTC  
GCACACCCATTCAAGCGGCAGGACGCACCTTGCTTTAGCAGTTCTCGCTGACCGCGCTAGCTGCGGCTTCTACGCT  
CCGGCACTCTGAGTTTCATCAGCAAACGCCCTGGCGTCTGTCTCACCATGCCTAGCCTTTGGGACCGCTTCTCGT  
CGTCGTCCACCTCCTCTTCGCCCTCGTCTTGCCCCGAACCTCCACCCAGATCGGCCCGCCGCGCTCAGCCTGGG  
GGTCGGCGACCCGGGAGGAGGGGTTTGACCGCTCCACGAGCCTGGAGAGCTCGGACTGCGAGTCCCTGGACAGCA  
GCAACAGTGGCTTCGGGCCGGAGGAAGACACGGCTTACCTGGATGGGGTGTCTGTTGCCCGACTTCGAGCTGCTCA  
GTGACCTGAGGATGAACACTTGTGTGCCAACCTGATGCAGCTGCTGCAGGAGAGCCTGGCCCAGGCGCGGCTGG  
GCTCTCGACGCCCTGCGCGCTGCTGATGCCAGTTCAGTGGTAAGCCAGGTGGGCAAAGAACTACTGCGCCTGG  
CCTACAGCGAGCCGTGCGGCCCTGCGGGGGCGCTGCTGGACGTCTGCGTGGAGCAGGGCAAGAGCTGCCACAGCG  
TGGGCCAGCTGGCACTCGACCCAGCCTGGTGCCACCTTCCAGCTGACCCCTCGTCTGCGCCTGGACTCACGAC  
TCTGGCCCAAGATCCAGGGGCTGTTTAGCTCCGCCAACTCTCCCTTCCCTGGCTTCAGCCAGTCCCTGACGC  
TGAGCACTGGCTTCCGAGTCATCAAGAAGAAGCTGTACAGCTCGGAACAGCTGCTCATTGAGGAGTGTTGAACTT  
CAACCTGAGGGGGCCGACAGTGCCCTCCAAGACAGAGACGACTGAACCTTTTGGGGTGGAGACTAGAGGCAGGAGC  
TGAGGGACTGATTCCAGTGGTTGGAAAACCTGAGGCAGCCACCTAAGGTGGAGGTGGGGGAATAGTGTTCACAGG  
AAGCTCATTGAGTTGTGTGCGGGTGGCTGTGCATTGGGGACACATACCCCTCAGTACTGTAGCATGGAACAAAGG  
CTTAGGGGCCAACAAGGCTTCCAGCTGGATGTGTGTGTAGCATGTACCTTATTATTTTGTACTGACAGTTAAC  
AGTGGTGTGACATCCAGAGAGCAGCTGGGCTGCTCCCGCCCCAGCCTGGCCCAGGGTGAAGGAAGAGGCACGTGC  
TCCTCAGAGCAGCCGGAGGGAGGGGGAGGTGCGAGGTCGTGGAGGTGGTTTGTGTATCTTACTGGTCTGAAGGG  
ACCAAGTGTGTTTGTGTTTGTGTTTGTATCTTGTGTTTCTGATCGGAGCATCACTACTGACCTGTTGTAGGCAGC  
TATCTTACAGACGCATGAATGTAAGAGTAGGAAGGGGTGGGTGTCAGGGATCACTTGGGATCTTTGACACTTGAA  
AAATTACACCTGGCAGCTGCGTTTAAGCCTTCCCCATCGTGTACTGCAGAGTTGAGCTGGCAGGGGAGGGGCTG  
AGAGGGTGGGGGCTGGAACCCCTCCCCGGGAGGAGTGCCATCTGGGTCTTCCATCTAGAAGTGTTCATGAAGA  
TAAGATACTCACTGTTTATGAATACACTTGATGTTCAAGTATTAAGACCTATGCAATATTTTTTACTTTTCTAAT  
AAACATGTTTGTAAAACAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2972**

MPSLWDRFSSSTSSSPSSLPRTPTPDRPPRSAWGSATREEGFDRSTSLESSDCESLDSSNSGFGFEEDTAYLDG  
VSLPDFELLSDPEDEHLCANLMQLLQESLAQARLGSRFPARLLMPSQLVSQVGKELLRLAYSEPCGLRGALLDVC  
VEQGKSCHSVGQLALDPSLVPTFQLTLVLRRLDSRLWPKIQGLFSSANSPFLPGFSQSLTLSTGFRVIKKKLYSSE  
QLLIEEC

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**FIGURE 2973**

CGCATTGCAGACTGCGGAGTCAGACGGCGCTATGTACGCCCTCTTCCTCCTGGCCAGCCTCCTGGGCGCGGCTCT  
AGCCGGCCCCGGTCTTGGACTGAAAGAATGCACCAGGGGCTCGGCAGTGTGGTGCCAGAATGTGAAGACGGCGTC  
CGACTGCGGGGCGAGTGAAGCACTGCCTGCAGACCGTTTGGAAACAAGCCAACAGTGAATCCCTTCCCTGCGACAT  
ATGCAAAGACGTTGTACCGCAGCTGGTGATATGCTGAAGGACAATGCCACTGAGGAGGAGATCCTTGTTTACTT  
GGAGAAGACCTGTGACTGGCTTCCGAAACCGAACATGTCTGCTTCAITGCAAGGAGATAGTGGACTCCTACCTCCC  
TGTCATCCTGGACATCATTAAAGGAGAAATGAGCCGTCCTGGGGAGGTGTGCTCTGCTCTCAACCTCTGCGAGTC  
TCTCCAGAAGCACCTAGCAGAGCTGAATCACCAGAAGCAGCTGGAGTCCAATAAGATCCCAGAGCTGGACATGAC  
TGAGGTGGTGGCCCCCTTCATGGCCAAACATCCCTCTCCTCCTTACCCCTCAGGACGGCCCCCGCAGCAAGCCCCA  
GCCAAAGGATAATGGGGACGTTTGCCAGGACTGCATTAGATGGTACTGACATCCAGACTGCTGTACGGACCAA  
CTCCACCTTTGTCCAGGCCTTGGTGGAACATGTCAAGGAGGAGTGTGACCGCTGGGCCCTGGCATGGCCGACAT  
ATGCAAGAATAATATCAGCCAGTATTCTGAAATTGCTATCCAGATGATGATGCACATGCAACCCAAGGAGATCTG  
TGCGCTGTTGGGTTCTGTGATGAGGTGAAAGAGATGCCCATGCAGACTCTGGTCECCGCCAAAGTGGCCTCCAA  
GAATGTCATCCCTGCCCTGGAACCTGGTGAGCCCATTAAGAAGCAGAGGTCCCAGCAAAGTCTGATGTTTACTG  
TGAGGTGTGTGAATTCCTGGTGAGGAGGTGACCAAGCTGATTGACAACAACAAGACTGAGAAAGAAATACTCGA  
CGCTTTTGACAAAATGTGCTCGAAGCTGCCGAAGTCCCTGTGCGAAGAGTGCCAGGAGGTGGTGACACGTACGG  
CAGCTCCATCCTGTCCATCCTGCTGGAGGAGGTGAGCCCTGAGCTGGTGTGACGATGCTGCACCTCTGCTCTGG  
CACGCGGCTGCCTGCCTGACTGACCGTTACGTGACTCAGCCAAAGGACGGTGGCTTCTGCGAAGTGTGCAAGAAGCT  
GGTGGGTTATTTGGATCGCAACCTGGAGAAAAACAGCACCAGCAGGAGATCCTGGCTGCTCTTGAGAAAGGCTG  
CAGCTTCTGCCAGACCCCTTACCAGAAGCAGTGTGATCAGTTTGTGGCAGAGTACGAGCCCGTGTGATCGAGAT  
CCTGGTGGAGGTGATGGATCCTTCCCTTCGTGTGCTTGAATTTGGAGCCTGCCCTCGGCCCATAGCCCTTGT  
GGGAAGTGAAGAAGTGTATATGGGGCCCAAGCTACTGGTGCCAGAACAACAGAGACAGCAGCCAGTGCAATGCTGT  
CGAGCATTGCAAACGCCATGTGTGGAACTAGGAGGAGGAATATTCATCTTGGCAGAAACCACAGCATTGGTTTT  
TTTCTACTTGTGTGCTGCGGGGAATGAACGCACAGATCTGTTTGAATTTGTTATAAAAAATAGGGCTCCCCACCT  
CCCCCATTTCTGTGTCCTTTATTGTAGCATTGCTGTCTGCAAGGGAGCCCCCTAGCCCCCTGGCAGACATAGCTGCT  
TCAGTGCCCCCTTTTCTCTCTGCTAGATGGATGTTGATGACTGGAGGTCTTTTAGCCTGCCCTTGCTGGCGCCT  
GCTGGAGGAGGAGAGAGCTCTGCTGGCATGAGCCACAGTTTCTTGACTGGAGGCCATCAACCTCTTGTTGAGG  
CCTTGTTCTGAGCCCTGACATGTGCTTGGGCACTGGTGGGCTGGGCTTCTGAGGTGGCCTCCTGCCCTGATCAG  
GGACCCTCCCCGCTTTCTGGGCCCTCAGTTGAACAAAGCAGCAAAACAAAGGCAGTTTATATGAAAGATTAG  
AAGCCTGGAATAATCAGGCTTTTTAAATGATGTAATTCCTACTGTAATAGCATAGGGATTTTGAAGCAGCTGCT  
GGTGGCTTGGGACATCAGTGGGGCCAAGGGTTCTGTGCTTGGTTCAACTGTGATTGGCTTTCCCGTGTCTTT  
CCTGGTGATGCCTTGTTTGGGGTTCTGTGGGTTTGGGTGGGAAGAGGGCCATCTGCCTGAATGTAACCTGCTAGC  
CTACATGTCCCTGGCTGTTGAGGCGCTGCTTACGCTGCACCCCTCCCTTGTCTCATAGATGCTCCTTTTACCT  
TTTCAAATAAATATGGATGGCGAGCTCCTAGGCCCTTGGCTTCTGGTAGAGGGCGGCATGCCGAAGGGTGTGCT  
GGGTGTGGATTGGATGCTGGGGTGTGGGGTGTGAAGCTGTCTGTGGCCCACTTGGGCACCCACGCTTCTGTCCA  
CTTCTGGTTGCCAGGAGACAGCAAGCAAAGCCAGCAGGACATGAAGTTGCTATTAAATGGACTTCGTGATTTTTG  
TTTTGCACTAAAGTTTCTGTGATTTAACAATAAAATCTGTTAGCC

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**FIGURE 2974**

MYALFLLASLLGAALAGPVLGLKECTRGSAVWCQNVKTASDCGAVKHCLQTVWNKPTVKSLPCDICKDVVTAAGD  
MLKDNATEEEILVYLEKTCDWLPKPNMSASCKEIVDSYLPVILDIKGEMSRPGEVCSALNLCESLQKHLAELNH  
QKQLESNKIPELDMTEVVAPFMANIPLLLYPQDGPRSKPQPKDNGDVCQDCIQMVTDIQTAVRTNSTFVQALVEH  
VKEECDRLGPGMADICKNYISQYSEIAIQMMMHMQPKEICALVGFCDEVKEMPMQTLVPAKVASKNVIPALELVE  
PIKKHEVPAKSDVYCEVCEFLVKEVTKLIDNNKTEKEILDAFDKMCSKLPKSLSEECQEVVDITYGSSILSILLEE  
VSPELVCSMLHLCSGTRLPALTVHVTQPKDGGFCEVCKKLVGYLDRNLEKNSTKQEILAALEKGCFLPDYPYQKQ  
CDQFVAEYEPVLIEILVEVMDPSFVCLKIGACPSAHKPLLGTCKIWGPPSYWCQNTETAAQCNAVEHCKRHVWN

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**FIGURE 2975**

GTGTCTTTCCTGGTGATGCCTTGTTTGGGGTTCTGTGGGTTTGGGTGGGAAGAGGGCCATCTGCCTGAATGTAAC  
CTGCTAGCTCTCCGAAGGCCCTGCGGGCCTGGCTTGTTGTGAGCGTGTGGACAGTGGTGGCCGCGCTGTGCCTGCT  
CGTGTTGCCTACATGTCCCTGGCTGTTGAGGCGCTGCTTCAGCGCACCCACGCTTCTGTCCACTTCTGGTTGCCA  
GGAGACAGCAAGCAAAGCCAGCAGGACATGAAGTTGCTATTAAATGGACTTCGTGATTTTTGTTTTGCACTAAAG  
TTTCTGTGATTTAACAATAAAATTCTGTTAGCCAG

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**FIGURE 2976**

AGACTAAAGACATTAAAGAGATAGCCAAAAAGACACAAGCCCTGCCAAAGATGAACTCAAAGAGGCAGCGAATCG  
TGATCTTCACCCAAGGGAGAGATGACACTATAATGGCTACAGAAAGTGAAGTCACTGCTTTTGCTGTCTTGGATC  
AAGACCAGAAAGAAATTATTGATACCAATGGAGCTGGAGATGCATTTGTTGGAGGTTTTCTGTCTCAACTGGTCT  
CTGACAAGCCTCTGACTGAATGTATCCGTGCTGGCCACTATGCAGCAAGCATCATAATTAGACGGACTGGCTGCA  
CCTTTCCTGAGAAGCCAGACTTCCACTGATGGAAGAGCTGAAAACACAGCCCAGGAGTGCAGACACTGCCCTAA  
TTGCTTCCTGAGAATTCCCATATTAATAAAGAAGAAAATTATCTGCCATTTTTCTACTATAATAATGCTGAAT  
CTTAATTTAGAGGGTACAAGGGTATGGTAATGCTTGTAGAATCTTTATTATCTCAACAATCTAAAAAATGATGTT  
TATTTCCATAGTTTGATAGTGCCACTTAAATGCCAATTAAACAAGAATATAACATTTCAATAGAAATTTTTATTT  
CATTTTCAATTACTTTGTAAATTCGTGTGTATTTAGTACACTGATTTGTTTTTTTACATTTCTGCTTTGAATGCA  
GATGCAATTTAATATAATAGATTTTTTAATGAATTAATCTTAACATAGTAATCTTTAGCTTTTATACAAATATA  
TTTAATTTAGGAGTATATGTGTGTCTATACACACACATACATAAATATACCACATATACACCTGATAGTCAAATA  
AGGTACAGAAATTTTATCTTGTCAATTATGCCAAATAATCTCTTTAATGTGCACTCAAACATGTAATAAACTTTG  
GATAATT



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**FIGURE 2977**

AGCCTGAACCTCTAGGACTTTTAATTGATACCAGTGGTCTCCGCTCTGAAACAGTCCACCAGAATGAGGGTACCA  
AACTGACCTCAGAGGTTTCCAGGTTTGATGAACTTGTGAAAAAATTCAAAGTCGAATATCATGCTGGTGGCTCTA  
CCCAGAATTCAATTAAAGTGGCTCAGAATCTGGAGAGCCTGTCTTGTGTTGCCCCGACAGATACCCCTCTTCCAGC  
AGATCTCTGCACAGAATTATTTTCAGACCACAGCAAGAAGGGTCAGAGCTGAGAATGGACCACCTGAGGATCTGC  
TGTGGGATGGAGCAGGAACCTGCTTAGGTGGTACCAATCTTGACTTCCAGATGGAACAGTACATCTCTATAAGGA  
AAAGTGATGGCATCCACATCGTAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTTGTGCCATTGTTG  
CCATTGAAAACCTGCTGATGTCAGTGTTATATCCTCCAGGAATATTGGCCAAAGGGCTGTGCTGAAGTTTGCTG  
CTGCCACTGGAGCCACTCCAATTGTTGGCCACTTCACTCCTGGAAACCTTCACTAACCACATCCAGGCAGCCTTCC  
AAGAGCCACGGCTTCTTGTGGTTACTGACCCAGGGCTGACCACCAGCCTCTCACAGAGGCATCTTACGTTAACC  
TATCTACCGTTGCTTTGTGTAACACAGATTCTCCTCTGCACTTTGTGGACATTGCCATTCTATGCAACAATAAGG  
GAGCTCACTCAATGGGTTTGATGTGGTGGATGCCAGCCCGGAAGGTTTGC GCGCGTGTGGCACCATTTCCTCATG  
AACACCCATGGGAATTCATGCCTGATCTCTACAGAGATCCTAAAGAGACTGAAAAAGCAGAGCAGCCTGCTGCTG  
AAAAGGCTGTGACCAAGGAGGAATTTAGGGTGAATGGACTGCTCCAGCTCCTGAGTTAACTGCTACTCAGCCTG  
AGGTTGCAGACTGGTCTGAAGGTGTGCAGGTGCCCTCTGCGCCTATTTCATCAGTTCCCTACTGAAGACTGGAGTG  
CTGAGCCTGCCACGGAAGGCTGGTCCACAGCTCCCAATGCTCAGGCCATTGAATGGTGGATGATTCAACAGCCAC  
ACAAAGCAGCAACATTTTTTGGATGCATTGGGATAGATAAATTTGGGGAGATCCTGAAGAGAAAAGCTGCTGAAG  
CCCATGTGGATGCTCATTACTACGAGCAGAATGAGCAGCCAACAGGAACTTGTGCTGCATGCATCACTGGTGACA  
ACAGGTCCCTCATAGCTAATCTTGCTGCTGCCAATTGTTATAAAAAGGAAAAACATCTTGATCTGGAGAAAACT  
GGATGTTGGTAGAAAAAGCAAGAGTTTGTATATAGCAGGTGTGATAAAGCATATTACTAGAAAAGCATCAATCG  
GTCTTTCAGGTACAATACCAGAGGAACCATCACAGTTTATTTACCTTTCAGAAGCTTTAAAAATAAAGTTACATG  
ATGCCTCTGCTCTCCAGATTTCTAATCAAACCTGGAACAAAAGAGCCAAGCACATTCTATCTGA

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**FIGURE 2978**

CTTTTCCTCCTTGGCTGTCTGAAGATAGATCGCCATCATGAACGACACCGTAACTATCCGCACTAGAAAGTTCAT  
GACCAACCGACTACTTCAGAGGAAACAAATGGTCATTGATGTCCTTCACCCGGGAAGGCGACAGTGCCTAAGAC  
AGAAATTCGGGAAAAACTAGCCAAAATGTACAAGACCACACCGGATGTCATCTTTGTATTTGGATTGAGAACTCA  
TTTTGGTGGTGGCAAGACAACCTGGCTTTGGCATGATTTATGATTCCTTGGATTATGCAAAGAAAAATGAACCCAA  
ACATAGACTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTCAAGAAAGCAACGAAAGGAACGCAAGAACAG  
AATGAAGAAAGTCAGGGGGACTGCAAAGGCCAATGTTGGTGTGGCAAAAAGTAGAGCTGGAGATTGGATCACAGC  
CGAAGGAGTAAAGGTGCTGCAATGATGTTAGCTGTGGCCACTGTGGATTTTTCGCAAGAACATTAATAAACTAAA  
AACTTCATGTGT

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**FIGURE 2979**

MNDTVTIRTRKFMNRLLRKQMVLDVLPKATVPKTEIREKLAKMYKTPDVIFVFGFRTHFGGGKTTGFGMI  
YDSL DYAKKNEPKHRLARHGLYEKKKTSRKQRKERKNRMKKVRGTAKANVGAGKK

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**FIGURE 2980**

CTTTTCCTCCTGGCTGTCTGAAGATAGATCGCCATCATGAACGACACCGTAACTATCCGCACTAGAAAAGTTCAT  
GACCAACCGACTACTTCAGAGGAAACAAATGGTCATTGATGTCCTTCACCCCGGGAAGGCGACAGTGCCTAAGAC  
AGAAATTCGGGAAAACTAGCCAAAATGTACAAGACCACACCGGATGTCATCTTTGTATTTGGATTCAGAACTCA  
TTTTGGTGGTGGCAAGACAACCTGGCTTTGGCATGATTTATGATTCCCTGGATTATGCAAAGAAAAATGAACCCAA  
ACATAGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTCAAGAAAGCAACGAAAGGAACGCAAGAACAG  
AATGAAGAAAGTCAGGGGGACTGCAAAGGCCAATGTTGGTGCTGGCAAAAAGCCGAAGGAGTAAAGGTGCTGCAA  
TGATGTTAGCTGTGGCCACTGTGGATTTTTTCGCAAGAACATTAATAAACTAAAACTTCATGTGT

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**FIGURE 2981**

MNDIVTIRTRKFMINRLLQRKQMVLDVLHPGKATVPKTEIREKLAKMYKTPDVIFVFGFRTHFGGGKTTGFGMI  
YDSL DYAKKNEPKHRLARHGLYEKKKTSRKQRKERKNRMKKVRGTAKANVGAGKKPKE

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**FIGURE 2982**

GCTGCAGCTGCAGCAGCTGGAGGGCGAAGTGAAGGAGACACCGTTCCGCCCGCGGCCTCGCCATGCGGACCCACG  
GACAGACTTGC GCGCGTCCAATGTGTATTCTCCATCATATGCTGACCTTGGCAAAGTTGCCAGAGATATTTTCA  
ACAAAGGATTTGGTTTTGGGTTGGTGAACTGGATGTGAAAACAAAGTCTTGCAAGTGGCGTGAATTTTCAACGT  
CCGGTTCATCTAATACAGACACTGGTAAAGTTACTGGGACCTTGGAGACCAAATACAAGTGGTGTGAGTATGGTC  
TGACTTTTACAGAAAAGTGGAACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTTGTCAAG  
GTTTGAACTGACATTTGATACTACCTTCTCACCAAACACAGGAAAGAAAAGTGGTAAAATCAAGTCTTCTTACA  
AGAGGGAGTGTATAAACCTTGGTTGTGATGTTGACTTTGATTTTGCTGGACCTGCAATCCATGGTTCAGCTGTCT  
TTGGTTATGAGGGCTGGCTTGCTGGCTACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATAACT  
TTGCAGTGGGCTACAGGACTGGGGACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGATCAA  
TTTATCAGAAAGTTTGTGAAGATCTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTCGTT  
TTGGCATTGCAGCTAAATATCAGTTGGATCCCACTGCTTCCATTCTGCAAAAGTCAACAACCTCTAGCTTAATTG  
GAGTAGGCTATACTCAGACTCTGAGGCCTGGTGTGAAGCTTACACTCTCTGCTCTGGTAGATGGGAAGAGCATT  
ATGCTGGAGGCCACAAGGTTGGGCTCGCCCTGGAGTTGGAGGCTTAATCCAGCTGAAAGAAACCTTTGGGAATGG  
ATATCAGAAGATTTGGCCTTAATATATTCCATTGTGACCAGCAGCAGGCTTTTTTCCCCCAAGAAGATGATCAA  
AACAAAGGATGATCTCAACAAGAGCTGTATTTTAAGTATTTAGACAGTTCTTTGTTAGCTGGTTTCTAGTTGGTT  
ATCTAGTTACCAATGCTGCAGTCCTGCAGTCACCTATACATTATTTAAATGTATTTAACTGTTAAATGCGCTACC  
CACCAATAATGAAATAGACCTTTATGAAAACCTGTGCAATTGTGTGCATGTTTGTGTTTTATGTTTCTTTAGAAAAC  
ATTGACTGTTACCATTGAATGAGATGGATCAGTGGATATTAAGATGAGGTTACAAATTTTGTTAAGTTTCAGCCAT  
TATTACTTTTGGTATCCCAGAACATGACAAATTATGAATAAAACAAGTATACAT

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**FIGURE 2983**

MATHGQTCARPMCIPPSYADLGKVARDIFNKGFGFGLVKLDVTKSCSGVEFSTSGSSNTDTGKVTGTLETKYKW  
CEYGLTFTEKWNTDNTLGTEIAIEDQICQGLKLTFDITFSPNTGKKSGKIKSSYKRECINLGCDVDFDFAGPAIH  
GSAVFGYEGWLAGYQMTFDSA KSKLTRNNFAVG YRTGDFQLHTNVNDGTEFGGSIYQKVCEDLDTSVNLAWTSGT  
NCTRFGIAAKYQLDPTASISAKVNSSLIGVGYTQTLRPGVKLTLSALVDGKSINAGGHKVGLALELEA

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**FIGURE 2984A**

AGCCTTGTTGCTCTCTGGTGCGAAGAGCTCGGCCGCTGCTGCTGCTCCGACATCAGAAGAGCCGCCAGAGCGA  
TCCCCCTGGGAAACTCCCCATGCAGCCCCCTCTCAGCTCCATGAGCTCCATGAAACCCACTCTGTGCGCACAGTGA  
TGGGTCGTTCCCTATGACTCTGTCCCTTGCGCAGCAGAACACCAACCAGCCTCCCGGCTCCCTTTCCGTGGTCAC  
CACGGTTTGGGGAGTAACCAACACATCCCAGAGCCAGGTCCTTGGGAACCCTATGGCCAATGCCAACACCCCAT  
GAATCCAGGCGGCAACCCCATGGCGTCGGGCATGACCACCAGCAACCCAGGCCTCAACTCCCCACAGTTTGC GGG  
GCAGCAGCAGCAGTTCTCAGCCAAGGCTGGCCCCGCTCAGCCCTACATCCAGCAGAGCATGTATGGCCGGCCCAA  
CTACCCCGGCAGCGGGGCTTGGGGCCAGTTACCTTGGGGTCTTAACGCCCCGCAGGCATGGGCATCCCTCC  
GCACACCAGGCCGCTGCTGACTTCACTCAGCCCGCGGCAGCCGCTGCAGCAGCGGCAGTGGCAGCAGCAGCAGC  
CACAGCTACAGCCACAGCCACGGCCACTGTGGCAGCCCTGCAGGAGACACAGAACAAAGGATATAAACAGTATGG  
ACCGGTCTGTTCTCTTTCCAGATGGGTCCCACCCAGGCGTATAACAGCCAATTCATGAACCAGCCCGGGCCGCG  
GGGGCCTGCTCCATGGGGGGCAGCATGAACCCCGCAGCATGGCGGCTGGCATGACGCCCTCGGGGATGAGCGG  
CCCTCCCATGGGCATGAACCAAGCCCGGCCCGCCGCATCAGCCCTTTGGCACACAGGGGCAGCGGATGCCCCA  
GCAGACCTACCCGGGCCCCCGGCCCCAGTCCCTTCTATTAGAACATAAAGAGGCCATACCCTGGAGAGGTGAG  
TGCAGCAGTGGGAGCCTGGGAGGTGGGAACCTGGGACACCTGGGCTTGAAGACATGGGCCGTGGGTACGGCTTTGG  
AAGGGGTGTGGCTTGGACTCCAGCACACTTGGACAAAGAGGCAGGGGCTTAGGGGTGAGGTGCTCCTGGGTTTGA  
GACCTGGTTCTGCTGTTTCCAACTGAAAGACCTCGAGCCAGTCACCCTGCCTCCTAGGGCTGCTTGAGGGACTT  
GAGGAGGTGTCCGTGAAGTGCTTGGCCCTGGGCTGGCATGTGCCGCCACTCAGCAAGCAGCAGTTCTCTTACTG  
TAGTGACTCTTGTCTTGGCTCAGCCACTAACTGGGTGACCTGGGTTAGTTCTCTCTGCCACATGAGAGCTTCC  
CCAACCTCTCTCAAGAAAGAGAGCTGAGACAAAATGCTTCCAGTCTATAAGGGGTGACCCGTCCGGGAAGTGAC  
TGGAAGGCAGGCAGCGTGTTCAGTCTGTAAGGATTGACCTGTTGGGGAAGTGACTGGAAGGCAGAGAGCGTGT  
TTCCAATCTATAAGGACTGACCCGTTGGGGAAGTGACTGGAAGGCCGGCAGCTGTTCCAGTCTATAAGGACTGA  
CCCGTCAGGGAAGTGACTGGAAGGCAGACAGCGTGTTCCTTAGCTCTGTTTCCATCCACACTTGGTCACTGTAT  
AGGAAGTGGCAGTGCCTCTTGGGCTGCACAGCCAGCTCAGCCAAGGTGTTGGGGAAGATTGGGGAAGTAAACC  
CACACCTCCTGCCCTCTGGGAAGTGAGGTTTTAGCAGGAAAGAAAGTTTTTAGCAGAGACTACCAGGGAATGA  
AGCATAGCAGACTGCACAGAACTCAATATGAGTCAGAGAAGGCAGGCTTCCTGGAGGGTGTGTACAAAGTAAATC  
CTCAGAAAATGATGCTGGCAGCAGCTGGCCCATCTGGGTACCCAGGTAAGGATTTAGTTTACCTGCAGAAGACGT  
AGGGACGTGGCTCTGCAGATGCCCTCGTGAAGCCCTGGTTGCTCCCCACGACCAAGCCCTTTTTGAGCAGGGT  
GTGCCCAGCTCTCTGCCTGCCTCCCTCCCAGCTTGCATGCCCACTCTCAGAGCAGTTTTCTCCTCCTAGCTCCTC  
TCAGCTCTGTGGCCTTACCTTGGGTTACAGCGGCTTTAGATTCCAAAGACCTTAAGTTCTTGAAGATCTGCA  
CATTTCCCTCAGTATCCACCTTAGGATGGGCGGGGAGGCTTGGCAACAAGTGGAGGTATTCTGAGTTCAGGAGG  
GGAGAGAGAGGGGGGGGGTTCAGGGGCTTCTCATGCATCCAAGAAGCTGGATCAAGCCCCAACCTCCACCTGG  
TGGACACTAGTTCAGGGAGGGGCCAGAGAAGGACCATTTGGCTCCTGGGTCTGAGTTTGGGGGAGCCTCAAGCTA  
TTGGCACCTCTCCTGGCACTCAGGCCCCATGCAGTTTCTAGGCCTTTTCTCAGCCACCCTGTGCTCAAAATCCCA  
GTGTCCCACTGGCTGTGCTGGGGGTGCATCTGTTAGCCACGCCAAAGGAGGCAATCTCGGATGAGGCTTCAGCA  
GAATTCCTGGTCATTGGTGTACCCCTGCACCTGCACCTGTGCCATGCTTATGGCTCTTGCTGCCTAAAGAGAG  
CACACCAAGGCTCTCCATATTTTACTAAATTAATCATCCTTTTCATAGAGTGCTGCTGCTACCCAGCTACAGC  
ACTGGGTGGTCACAGCCTATGCGGCTGATCCTGTCTGGAAGACTGGCCTTCCTTCCCTTGCCATGGCTTGTTC  
ATACAATATTTGAATTGTTGGAGCCTTAGGACAGGGGTGGGTTCATCTGGTCCCACAGAGGACTCTCTCTCTAG  
CTTGGTGGGCAGGTAGGCACCACTACGTCTTCTATACCTCCTGTGGTGGGTGCCTCACTGTCAACCCAGAGCAGC  
CACCATGTTGCAACAACGTGAGTTGTAGATTCTTCCACACTGACACTTCTGACATTTATCCCTAAGTCCATCAT  
TCGTTTGTGAGCAAGTATTAAGGGTATTTTCCAGGCACTGGGGCACAGCCACCAACAGGACCTCTGGGCAAGA  
GAGACACTCAGATGGGGAAGAAGAAACCACTGACTCACAGGATGTGATGTGGCCGTGAGGGTCACCTGATTTTCC  
AGACAGGGAAGGTGGCTGGAGGGTGGTGTCTCTCTCTCTCTCTAAATTGTCTGTCTCCCGGGAAGTTGTCTGT  
TCCTTACCAACCTGGCTCTCCACCTCCTGCACAGGTGGCAGGTTGTGATGGCCGAGAACTGAACACTAGGTG  
TGTGTTCTGCTCTGAGGGGAGTACGAGGACAATGCCACCAAGTTCAGCCTTGAATGCAGGGGCACAGGGGGCT  
CCTTTCTGGAATTGCATCCTGTTGACTGTGTTCTCTGTGCATTGGGGTACACATTGGGGAGCACAGCCCTAAC  
CCAGGCACCAGGAGAGACACAAAGGTGGGGGAGTTAGAATCAGGCCCCCTCATAATGGTGTGAGCAAGAGGCTCT  
GAAAGTGTCCCTGGAGTTCAGGGGCACATGTGCTCCAGGAAGAAGCGCTCAAGGGGAGGTGGCCTATGATCTGG



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**FIGURE 2984B**

ACAGGCAGAACAAAATGCCCTGGATGTCAGGACGAGAAGGGGCCCAAAGCATTATCTGGTTTTGTGGGTGGGAA  
ACAGCAGGAGCAAATGAGGAGAGGCGGGCCCCATCCCGTTGTTTCAGGTGACCTGGCTATGTGACGTTGGCAACAT  
TGAACGTGTTCCCTCTCCTTTCTCTCCACCACAGCCCAACTATGGAAACCAGCAATATGGACCAAACAGCCAG  
TTCCCCACCCAGCCAGGCCAGTACCCAGCCCCCAACCCCCGAGGCCACTCACCTCCCCCAACTACCCAGGACAG  
AGGATGCCCAGCCAGCCGAGCTCCGGGCAGTACCCGCCCCCACGGTCAACATGGGGCAGTATTACAAGGTGAGT  
CCCAGCCTCGCCACCACCCACGGGGCCCCCTTCCCTCCTAACCACCTCACTCCCCTAACTCCACCGGGATCACTCT  
GACCCTGCGTGTGTTTGCCCCAAGGACAGCGAGGGGTGGGTGATTTCTGAACGTCCCCATGTGTTTCAGGGCGAAG  
TTCGGTGGCCAGAATGTCAGAGTGGCTTTTCTCAGTTCCTATTCTCATTTCGTCTCGGATGATGGTTTTTTTTTCT  
CCTTTTCTTATTCACGGCACTCACAAAATAATAAGGAAATATATTTTATT

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**FIGURE 2985**

MNSMDRHIQQTNDRQLQCIKQHLQNPANFHNAAATELLDWCGDPRAFQRPFEQSLMGCLTVVSRVAAQQGFDLDLGY  
RL LAVCAANRDKFTPKSAALLSSWCEELGRLLLLRHQKSQSDPPGKLPMQPPLSSMSSMKPTLSHSDGSFPYDS  
VPWQQNTNQPPGSLSVVTTVWGVNTNTSQSQVLGNPMANANNPMNPGGNPMASGMTTSNPGLNSPQFAGQQQQFSA  
KAGPAQPYIQQSMYGRPNYPGSGGFGASYPGGPNAPAGMGIPPHTRPPADFTQAAAAAAAAAVAAAAATATATAT  
ATVAALQETQNKDINQYGPVCSSFQMGPTQAYNSQFMNQPGPRGPASMGGSMPASMAAGMTPSGMSGPPMGMNQ  
PRPPGISPFTHGQRMPPQQTYPGPRPQSLPIQNIKRYPGEVSAAVGAWEVGTGTPGLEDMGRGYGFGRGVAWTP  
AHL DKEAGA

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**FIGURE 2986**

TCTGGGCGCGCGCAGTCAGTTTGAGTTCTGTGTTCTCCCCGCCCGTGTCCCGCCCGACCCGCGCCCGCGATGC  
TGGCGCTGCGCTGCGGCTCCCGCTGGCTCGGCCTGCTCTCCGTCCCGCGCTCCGTGCCGTGCGCCTCCCCGCGG  
CCCGCGCCTGCAGCAAGGGCTCCGGCGACCCGTCTCTTCTCCTCCTCCGGGAACCCGCTCGTGTACCTGGACG  
TGGACGCCAACGGGAAGCCGCTCGGCCGCGTGGTGTGGAGCTGAAGGCAGATGTCGTCCCAAAGACAGCTGAGA  
ACTTCAGAGCCCTGTGCACTGGTGAGAAGGGCTTCGGCTACAAAGGCTCCACCTCCACAGGGTGATCCCTTCTT  
TCATGTGCCAGGCGGGCGACTTCACCAACCACAATGGCACAGGCGGGAAGTCCATCTACGGAAGCCGCTTTCCTG  
ACGAGAACTTTAACTGAAGCACGTGGGGCCAGGTGTCTGTCCATGGCTAATGCTGGTCTTAACACCAACGGCT  
CCAGTTCTTCATCTGCACCATAAAGACAGACTGGTTGGATGGCAAGCATGTTGTGTTTCGGTCACGTCAAAGAGG  
GCATGGACGTCGTGAAGAAAATAGAATCTTTCGGCTCTAAGAGTGGGAGGACATCCAAGAAGATTGTCATCACAG  
ACTGTGGCCAGTTGAGCTTAATCTGTGGCCAGGGTGTGGCATGGTGGCAGCTGCAAATGTCCATGCACCCAGGTG  
GCCGCGTTGGGCTGTGAGCCAAGGTGCCTGAAACGATACGTGTGCCCACTCCACTGTACAGTGTGCCTGAGGAA  
GGCTGTAGGGATGTTAGACCTCGGCCAGGACCCACCACATTGCTTCCTAATAACCCACCCCTTCTCAGACCTCA  
TTTCTGGGCATCTTTGTGGACATGATGTCACCCACCCCTTGTCAAGCATTGCCTGTGATTGCCAGCCCAGATTC  
ATCTGTGCCTTGGACATGGTGATGGTGATGGGTTGCCATCCAAGTGAAGTCTTTTCCTTGACCAAGGGGGACAG  
TCAGTTTTGCAAAGGACTCTAATACCTGTTTAAATATTGTCTTCTTAATTGGGATAATTTAATTAACAAGATTGA  
CTAGAAGTGAACTGCAACACTAACTTCCCCGTGCTGTGGTGTGACCTGAGTTGGTGACACAGGCCACAGACCCC  
AGAGCTTGGCTTTTGAAACACAACCTCAGGGCTTTTGTGAAGGTTCCCCCGCTGAGATCTTCTCCTGGTTACTG  
TGAAGCCTGTGTGTTTGTCTGCTGTCGTTTTTGTAGGAGGGCCATGGGGGTAGGAGCAGTTGAACCTGGGAACAAA  
CCTCACTTGAGCTGTGCCTAGACAATGTGAATTCCTGTGTGTTAACAGAAGTGGCCTGTAAGCTCCTGTGCTCC  
GGAGGGAAGCATTTCTTGGTAGGCTTTGATTTTTCTGTGTGTTAAAGAAATCAATCTACTCATGATGTGTTATG  
CATAAAACATTTCTGGAACATGGATTTGTGTTACCTTAAATGTGAAAATAAATCCTATTTTCTATGAAAAAAA  
AAAAAAAAAAAAAAAA

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**FIGURE 2987**

MLALRCGSRWLGLLSVPRSVPLRLPAARACSKGSGDPSSSSSSGNPLVYLDVDANGKPLGRVVLELKADVVPKTA  
ENFRALCTGEKGFGYKGSTFHRVIPSFMCQAGDFTNHNGTGGKSIYGSRFPDENFTLKHVGPVLSMANAGPNTN  
GSQFFICTIKTDWLDGKHVVFGHVKEGMDVVKKIESFGSKSGRTSKKIVITDCGQLS

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**FIGURE 2988**

ATGAGGAGCAGGAGCACACGTCCAGAACCAAAGCAGAGCGGTGTCCACGCCACTGCAAGCAGCAGGTCCAGATCC  
CACATTTCCACAGGAGCCATGGCAAAGGCCTGTGAGCCTGGGGCAGCTCCACCCCAAGAATCAGGGTCCCCAGTG  
CACCGGGACTCCGCTCCAAGGAGGAATGCAACCACTTCCAGGGGGAACGGCCAGTGTGTTGCACGGTGGATGTGC  
TCAAGCTCCCGTTTGCTCATCAGCGGGAACACAGGGTCACAGAGGCACCGCAGGGTGGAGAGAGGCAGGGACTG  
GGAATGAAACCACAACTCTCCAGATGCTGACGTTGCTGCCTCACAGTCACCACAGTCCATGGCCCTGGGCTGC  
TGGACTCATGGTGCACCTCAGAGCTATCACTGGAGCCCCGTGGCTTTGGGGAGTGCTCTCCTAGATGGCCTAGTCTT  
GATAATGATAGTAATGGGGACAGTAATCTGCAGCCCATCACCTCACAACCGCCCTGCAAGCTCCCTGAAACAGC  
GTGACCTCCCGTCCATCCAGCAGCCTCTTTACGTGTGAGCTGCAGGACCAGCTCCAATGCCCGGAGGACACTCAC  
ATGAGGAAGCACGAAAGCGCTTCGGTGTGAGGACTCTGGGGAAGAGGGCGCCTGGAGCCTGCCAGACGAGGGGGG  
CCTGAGTTAGGACCAAGGTCTGCGCCTGAGCGGCTTCACAGGCCCCACCTCTGTCTCATCTGGACAAAAGACGT  
TGGAAGCCCCGGCCCCACTCGGGCTGCAGCCATCCTGTCTGTCAACAGAGACCCTGTGAGCCTCACAGGCATCT  
CCCAAGCCATGGGTGAGGGATGAGTCTCTCAGCGGCTGGTGGTCTCAGCGTGCTCAGCAACAGGCTTACCTCC  
ATTGCAAGCCATCCCCCTCAGGCTGGGCACCTGACCACCGCCGTCTGGCAGTTTTCCGCAATAAGAAAAGCCAAGGGA  
GCCTTGAGGCGGGCGAGGTTCCAGCGCGAGGCGCGCCGCCCTCAACCGCTCCAGCGCCAGTTGCGGCGGTTGAT  
GGCAGGGAGACGCGCAGCGCGAGAGCAAAAGGGCGGTGACCCAACGGCCTTCGCTCTCATGGCGTCCTTCTTGGTG  
TTACCTAAAAATAAGCCAAGGGTGATCAGAAGCGAGGGACGCTGGCCTTCTCGCGGCTTTCCCCGATATCTCT  
CTTTATTCCAGCTGCCTGAACTCGGTCCCACGAATGGCAGGCAGCGTCCAAAATTCAACCCCGTAAAGCCAGCA  
CCAGCCAATAAAGCGCACGGATGGAGGCCACGTGACAGCAGTGGGCGGCCCTCCGGCTGAGCCCTGATCTCTAT  
GGTTTCCGCGGCTCGCTAGAAGGAGTGTGGTCCACCGGAGGACTCCCTACATTCTTCTCCATTACCTCACTGCC  
TCCGGTGGCTGTGGGATACCGGAGGACTCGGCGCGTCCGGCCCCCGCCGAGGCCAGCTTCTCTCGGGAGCCCCC  
ACCCAGGCGCATGGCTCCATGAAGCAAGAGGAGGAGGCAGAGCGCGAGAGGTCCCGTCCGCCCCAGCCGCGTCTG  
GGCCAGGATAAAAGAGACCCCGCGGTCTTGGGGCGAGGGTCCGGGGGCAGCCAAAACCATATTCTGTGCTGTGTC  
AGTTATGATGCACTGAGAAAACCTCAGAGACCTAACTTTTTCCAGAGAAGAGAAGCTTTACTGGTGTTCAGCC  
CTAAGCATTGACTTCACTAATGGATGTGACCTGGTTGGCAGCAGTAGCTTGCACAACATGCTTGTTTGCAAAACC  
TTTGTTCAAGAAAACGGCAGATGCTCTGTTGAATCCACTGGAGATTGTTCTGATACTAAGGACAAGTATGCTCAT  
ATGACATTAACAGACAAGACACTTTTCAGAAAGACAGTTGCTAATGGTAATGATGAAAATAATGTCATCATCAGG  
TATTATTTAGCTATTGGAAGAAACCACTCGGTGTGAGTTTCATCAAGGAATCTGTACAGATGTGA

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**FIGURE 2989**

MSRNEINAIQRECKTCNLRILCFRINPPKQGCYLGAWTAGLYYRKLGIVADALVSQRHGHGGSNEGALSGPRKH  
PGALRRARFQREAGRPQPLPAPVAAVDGRETRSARAKGGDPTAFALMASFLVLPKNKAKGDQKRGTLAFSRLSPD  
ISLYSSCLKLGPTNGRQRPKFNPKPAPANKAHGWRPRDSSGPALRLSPDLYGFRGSLEGVWSTGGLPTFFLHYL  
TASGGCWDITGGLGASGPPAGQLLSGAPTQAHGSMKQEEEAERERSRPPQPRLGQDKRDP AVLGRGSGGSQNHIP  
AVSYDALRKLQRPKLFPEKRSFTGVPALSIDFTNGCDLVGSSSLHNMLVCKTFVQENGRCSESTGDCSDTKDKY  
AHMTLTDKTLFRKTVANGNDENNVIIRYYLAIGRNHVSSSSRNLSQM

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**FIGURE 2990**

GCTGCTGCGCCCGGGCTCCCCAGTGCCCCGAGTGCCCCGCGGGCCCCGCGAGCGGGAGTGGGACCCAGCCCTAG  
GCAGAACCAGGCGCCGCGCCCGGGACGCCCGGGAGAGAGCCACTCCCGCCCACGTCCCATTTCGCCCCCTCGCG  
TCCGGAGTCCCGTGGCCAGATCTAACCATGAGCTACCCCTGGCTATCCCCGCCCCCAGGTGGCTACCCACCAGC  
TGCACCAGGTGGTGGTCCCTGGGGAGGTGCTGCCTACCCCTCCTCCGCCCAGCATGCCCCCATCGGGCTGGATAA  
CGTGGCCACCTATGCGGGGCGATTCAACCAGGACTATCTCTCGGGAATGGCGGCCAACATGTCTGGGACATTTGG  
AGGAGCCAACATGCCAACCTGTACCCTGGGGCCCCCTGGGGCTGGCTACCCACCAGTGCCCCCTGGCGGCTTTGG  
GCAGCCCCCTCTGCCCAGCAGCCTGTTCTCCCTATGGGATGTATCCACCCCCAGGAGGAAACCCACCCTCCAG  
GATGCCCTCATATCCGCCATACCCAGGGGGCCCCCTGTGCCGGGCCAGCCCATGCCACCCCCGGACAGCAGCCCCC  
AGGGGCCCTACCCTGGGCAGCCACCAGTGACCTACCCTGGTCAGCCTCCAGTGCCACTCCCTGGGCAGCAGCAGCC  
AGTGCCGAGCTACCCAGGATACCCGGGGTCTGGGACTGTACCCCCGCTGTGCCCCCAACCCAGTTTGAAGCCG  
AGGCACCATCACTGATGCTCCCGGCTTTGACCCCCCTGCCGAGATGCCGAGGTCTTGCGGAAGGCCATGAAAGGCTT  
CGGGACGGATGAGCAGGCCATCATTGACTGCCTGGGGAGTCGCTCCAACAAGCAGCGGCAGCAGATCCTACTTTC  
CTTCAAGACGGCTTACGGCAAGGATTTGATCAAAGATCTGAAATCTGAACGTGCAGGAACTTTGAGAAGACAAT  
CTTGGCTCTGATGAAGACCCAGTCCTCTTTGACATTTATGAGATAAAGGAAGCCATCAAGGGGGTTGGCACTGA  
TGAAGCCTGCCTGATTGAGATCCTCGCTTCCCGCAGCAATGAGCACATCCGAGAATTAACAGAGCCTACAAAGC  
AGAATTCAAAAAGACCCTGGAAGAGGCCATTGGAAGCGACACATCAGGGCACTTCCAGCGGCTCCTCATCTCTCT  
CTCTCAGGGAAACCGTGATGAAAGCACAAACGTGGACATGTCACTCGCCCAGAGAGATGCCCAGGAGCTGTATGC  
GGCCGGGGAGAACCGCCTGGGAACAGACGAGTCCAAGTTCAATGCGGTTCTGTGCTCCCGGAGCCGGGCCACCT  
GGTAGCAGTTTTCAATGAGTACCAGAGAATGACAGGCCGGGACATTGAGAAGAGCATCTGCCGGGAGATGTCCGG  
GGACCTGGAGGAGGGCATGCTGGCCGTGGTGAATGTCTCAAGAATACCCAGCCTTCTTTGCGGAGAGGGCTCAA  
CAAGGCCATGAGGGGGGCAGGAACAAAGGACCGGACCCTGATTGCGATCATGGTGTCTCGCAGCGAGACCGACCT  
CCTGGACATCAGATCAGAGTATAAGCGGATGTACGGCAAGTCGCTGTACCACGACATCTCGGGAGATACTTCAGG  
GGATTACCGGAAGATTCTGCTGAAGATCTGTGGTGGCAATGACTGAACAGTGACTGGTGGCTCACTTCTGCCCAC  
CTGCCGGAACACCAGTGCCAGGAAAAGGCCAAAAGAATGTCTGTTTCTAACAAATCCACAAATAGCCCCGAGAT  
TCACCGTCTAGAGCTTAGGCCTGTCTTCCACCCCTCCTGACCCGTATAGTGTGCCACAGGACCTGGGTGCGTCT  
AGAACTCTCTCAGGATGCCTTTTCTACCCCATCCCTCACAGCCTCTTGCTGCTAAAATAGATGTTTCATTTTTCT  
GAAAAAAA

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**FIGURE 2991**

MSYPGYPPPPGGYPPAAPGGGPWGGAAYPPPPSMPPIGLDNVATYAGQFNQDYLSGMAANMSGTFGGANMPNLYP  
GAPGAGYPPVPPGGFGQPPSAQQPVPPYGMYPGPGNPPSRMPSYPPYPGAPVEGQPMPPPGQQPPGAYPGQPPV  
TYPGQPPVPLPGQQQPVPSYPGYPGSGTVTPAVPPTQFGSRGTITDAPGFDPLRDAEVLRLKAMKFGTDEQAIID  
CLGSRSNKQRQQILLSFKTAYGKDLIKDLKSELSGNFEEKILALMKTPVLFDIYEIKEAIKGVGTDEACLIEILA  
SRSNEHIRELNRAYKAEFKKTL EEAIRSDTSGHFQRL LISLQGNRDESTNVDMSLAQRDAQELYAAGENRLGTD  
ESKFNAVLCSSRAHLVAVFNEYQRMTGRDIEKSICREMSGDLEEGMLAVVKCLKNTPAFFAERLNKAMRGAGTK  
DRTLIRIMVSRSETDLLDIRSEYKRMYGKSLYHDISGDTSGDYRKILLKICGGND



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**FIGURE 2992**

GGTAGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCTCGGAGGCAGCGGTTGGGCTCGCGGCGAGCGGACGGGGTCGAGT  
CAGTGCCGTTTGC GCCAGTTGGAATCGAAGCCTCTTAAATGGCAGATGATTTGGACTTCGAGACAGGAGATGCA  
GGGGCCTCAGCCACCTTCCCAATGCAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCTGGCCA  
TGTAAGATCGTGGAGATGTCTGCTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGTATTGAC  
ATCTTTACTGGGAAGAAATATGAAGATATCTGCCCCGCAACTCATAATATGGATGTCCCAACATCAGAAGGAAT  
GACTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCACTGCTCCAGGACAGCGGGGAGGTACCAGAGGACCTT  
CGTCTCCCTGAGGGAGACCTTGGCAAGGAGACTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGGTG  
CTGTCTGCCATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAATTAAGTGGCTCCCAAGGTGGCAGTG  
GTGGCAGCAGTGATCCTCCGAACCTGCAGAGGCCCCCTCCCCAGCCTGGCCTGGCTCTGGCCTGGTCTTAGGCT  
GGACTCCTCCTACACAATTTATTTGACGTTTTATTTTGGTTTTTCCCCACCCCCTCAATCTGTCAGGGAGCCCCCTG  
CCCTTACCTAGCTCCCTTGGCCAGGAGCGAGCAAAGCCGTGGCCTTGGTGAAGCTGCCCTCCTCTTCTCCCTC  
ACACTACAGCCCTGGTGGGGGAGAAGGGGGTGGGTGCTGCTTGTGGTTAGTTTTTTTTTTTTTTTTTTTTTAAT  
TCAATCTGGAATCAGAAAGCAGTGGATTCTGGCAAATGGTCCTTGTGCCCTCCCCACTCATCTTGGTCTGGTCC  
CCTGTTGCCCATAGCCCTTTACCTGAGCACCACCAACAGACTGGGGACCAGCCCCCTCGCCTGCCTGTGTCTC  
TCCCCAAACCCCTTTAGATGGGGAGGGAAGAGGAGGAGAGGGGAGGGGACCTGCCCCCTCCTCAGGCATCTGGGA  
AGGCCCTGCCCCCATGGGCTTTACCCTTCCCTGAGGGCTCTCTCCCGACACATTTGTTAAATCAAACCTGAAT  
AAAACTACAAGTTTAATATG

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**FIGURE 2993**

MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGWPCKIVEMSASKTGKHGHAKVHLVGIDIFTGKKYEDICPS  
THNMDVPNIRRNDQFLIGIQDGYLSLLQDSGEVPEDLRLPEGDLGKETEQKYDCGEEILITVLSAMTEEAATAIK  
AMAK

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**FIGURE 2994**

GTCAGTGCCGTTTGCGCCAGTTGGAATCGAAGCCTCTTAAATGGCAGATGATTGGACTTCGAGACAGGAGATG  
CAGGGGCCCTCAGCCACCTTCCAATGCAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCTGGC  
CATGTAAGATCGTGGAGATGCTGCTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGTATTG  
ACATCTTTACTGGGAAGAAATATGAAGATATCTGCCCCGTCAACTCATAATATGGATGTCCCCAACATCAGAAGGA  
ATGACTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCACTGTCCAGGACAGCGGGGAGGTACCAGAGGACC  
TTCGTCTCCCTGAGGGAGACCTTGGCAAGGAGACTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGG  
TGCTGTCTGCCATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAATAACTGGCTCCCAAGGTGGCAG  
TGGTGGCAGCAGTGATCCTCTGGCCTGGTCCTAGGCTGGACTCCTCCTACACAATTTATTTGACGTTTATTTTG  
GTTTTCCCCACCCCTCAATCTGTCAGGGAGCCCTGCCCTTACCTAGCTCCCTTGGCCAGGAGCGAGCAAAGC  
CGTGGCCTTGGTGAAG

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**FIGURE 2995**

MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGWPCKIVEMSASKTGKHGHAKVHLVGIDIFTGKKYEDICPS  
THNMDVPNIRRNDFQLIGIQDGYLSLLQDSGEVPEDLRLPEGDLGKETEQKYDCGEEILITVLSAMTEEA AVAK  
AMAK

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**FIGURE 2996**

GGCACGAGGAGGTGTGGACGCTGTGTATGAAATGTCTTTCTCCAGGACCCAAGTTTCTTCACCATGGGGATGTG  
GTCCATTGGTGCAGGAGCCCTGGGGGCTGCTGCCTTGGCATTGCTGCTTGCCAACACAGACGTGTTTCTGTCCAA  
GCCCCAGAAAGCGGCCCTGGAGTACCTGGAGGATATAGACCTGAAAACACTGGAGAAGGAACCAAGGACTTTCAA  
AGCAAAGGAGCTATGGGAAAAAATGGAGCTGTGATTATGGCCGTGCGGAGGCCAGGCTGTTTCTCTGTGAGA  
GGAAGCTGCGGATCTGTCTCCCTGAAAAGCATGTTGGACCAGCTGGGCGTCCCCCTCTATGCAGTGGTAAAGGA  
GCACATCAGGACTGAAGTGAAGGATTTCCAGCCTTATTTCAAAGGAGAAATCTTCTGGATGAAAAGAAAAAGTT  
CTATGGTCCACAAAGGCGGAAGATGATGTTTATGGGATTATCCGTCTGGGAGTGTGGTACAACCTTCTTCCGAGC  
CTGGAACGGAGGCTTCTCTGGAACCTGGAAGGAGAAGGCTTCATCCTTGGGGGAGTTTTCTGTGGTGGGATCAGG  
AAAGCAGGGCATTCTTCTTGAGCACCGAGAAAAAGAATTTGGAGACAAAGTAAACCTACTTTCTGTTCTGGAAGC  
TGCTAAGATGATCAAACCACAGACTTTGGCCTCAGAGAAAAATGATTGTGTGAAACTGCCCAGCTCAGGGATAA  
CCAGGGACATTACCTGTGTTTCATGGGATGTATTGTTTCCACTCGTGTCCCTAAGGAGTGAGAAACCCATTATATA  
CTCTACTCTCAGTATGGATTATTAATGTATTTAATATTCTGTTTAGGCCCACTAAGGCAAAATAGCCCCAAAC  
AAGACTGACAAAAATCTGAAAACTAATGAGGATTATTAAGCTAAAACCTGGGAAATAGGAGGCTTAAATTTGAC  
TGCCAGGCTGGGTGCAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGAGCAAGTCACTTGAGG  
TCGGGAGTTCGAGACCAGCCTGAGCAACATGGCGAAACCCGTCTCTACTAAAAATACAAAAATCACCCGGGTGT  
GGTGGCAGGCACCTGTAGTCCCAGCTACCCGGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGTGGAGGT  
TGCGGTGAGCTGAGATCACACCACTGTATTCCAGCCTGGGTGACTGAGACTCTAACTAAAAAAAAAAAAAAAAAA  
AAA

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**FIGURE 2997**

MWSIGAGALGAAALALLLANTDVFLSKPQKALEYLEDIDLKTLKEPRTFKAKELWEKNGAVIMAVRRPGCFLC  
REEADLSSLKSMLDQLGVPLYAVVKEHIRTEVKDFQPYFKGEIFLDEKKKFYGPQRRKMMFMGFIRLGWYNFF  
RAWNGGFSGNLEGEFILGGVFVVGSGKQGILLEHREKEFGDKVNLLSVLEAAKMIKPQTLASEKK

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**FIGURE 2998**

GTCTATGCAGTGCGCCGGAGGAACTGTGCTCTTTGAGGCCGACGCTAGGGGGCCCGGAAGGGAACTGCGAGGCGAA  
GGTGACCGGGGACCGAGCATTTTCAGATCTGCTCGGTAGACCTGGTGCACCACCACCATGTTGGCTGCAAGGCTGG  
TGTGCTCCGGACACTACCTTCTAGGGTTTTCCACCCAGCTTTCACCAAGGCCTCCCCTGTTGTGAAGAATTCCA  
TCACGAAGAATCAATGGCTGTTAACACCTAGCAGGGAATATGCCACCAAAACAAGAATTGGGATCCGGCGTGGGA  
GAACTGGCCAAGAAGCTCAAAGAGGCAGCATTGGAACCATCGATGGAAAAAATATTTAAAATTGATCAGATGGGAA  
GATGGTTTGTGCTGGAGGGGCTGCTGTTGGTCTTGGAGCATTGTGCTACTATGGCTTGGGACTGTCTAATGAGA  
TTGGAGCTATTGAAAAGGCTGTAATTTGGCCTCAGTATGTCAAGGATAGAATTCATTCCACCTATATGTACTTAG  
CAGGGAGTATTGGTTTAAACAGCTTTGCTGCTATAGCAATCAGCAGAACGCCTGTTCTCATGAACCTTCATGATGA  
GAGGCTCTTGGGTGACAATTGGTGTGACCTTTGCAGCCATGTTTGGAGCTGGAATGCTGGTACGATCAATACCAT  
ATGACCAGAGCCCAGGCCCAAAGCATCTTGCTTGGTTGCTACATTCTGGTGTGATGGGTGCAGTGGTGGCTCCTC  
TGACAATATTAGGGGGTCTCTTCTCATCAGAGCTGCATGGTACACAGCTGGCATTGTGGGAGGCCCTCTCCACTG  
TGGCCATGTGTGCGCCAGTGAAAAGTTTCTGAACATGGGIGCACCCTGGGAGTGGGCCTGGGTCTCGTCTTTG  
TGTCTCTATTGGGATCTATGTTTCTTCCACCTACCACCGTGGCTGGTGGCCACTCTTACTCAGTGGCAATGTACG  
GTGGATTAGTCTTTTTCAGCATGTTTCTTCTGTATGATACCCAGAAAAGTAATCAAGCGTGCAGAAGTATACCAA  
GAGTTGCAACTATGCTGGCACTGGAGGCAACAGAAAGAAATGAAGTGAAGTCAAGCTTCTGGCTTCTCTGCTACAT  
CAAATATCTTGTTTAATGGGGCAGATATGCATTAATAGTTTGTACAAGCAGCTTTCGTTGAAGTTTAGAAGATA  
AGAAACATGTCATCATATTTAAATGTTCCGGTAATGTGATGCCTCAGGTCTGCCTTTTTTCTGGAGAATAAATG  
CAGTAATCCTCTCCCAAATAAGCACACACATTTTCAATTCTCATGTTTGAAGTATTTAAAATGTTTTGGTGAAT  
GTGAAAACATAAGTTTGTGTCATGAGAATGTAAGTCTTTTTTCTACTTTAAAATTTAGTAGGTTCACTGAGTAAC  
TAAAATTTAGCAAACCTGTGTTTGCATATTTTTTGGAGTGCAGAAATATTGTAATTAATGTCATAAGTGAATTG  
AGCTTTGGTAAAGGGACCAGAGAGAAGGAGTCACCTGCAGTCTTTTGTTTTTTAAATACTTAGAACTTAGCACT  
TGTGTTATTGATTAGTGAGGAGCCAGTAAGAAACATCTGGGTATTTGGAAACAAGTGGTCATTGTTACATTCATC  
TGCTGAACCTTAACAAAACCTGTTTCCTGAAACAGGCACAGGTGATGCAATCTCCTGCTGTGCTTCTCAGTGCT  
CTCTTTCCAATATAGATGTTGTCATGTTTGAAGTGTACAGAAATGTTAATCATACAGAGAATCCTTGATGGAATTA  
TATATGTTGTTTTACTTTTTGAATGTTACAAAAGGAAATAACTTTAAAACCTATTCTCAAGAGAAAATATTCAAAG  
CATGAAATATGTTGCTTTTTCCAGAATACAAACAGTATACTCATGATTGCTAAGTGTTTTTTATTTTTGCATAT  
TTATTGAAGTGTCTAATTGAATACAGCTTGCTCTTGTACCTCTTCAAGCTTTCAAGCCTTTATAGAAAAGCTTC  
TTTGTGGCTTACACTGGAAATTATGAAAGCAGTTTTTCTCCTAAGACTTTTGGTTTCTCGCATTGCCTCTCAGAC  
TAAGCACTAAAAGCAAAGCAAACAGAACTAGTTCTGTCTTAATGAAATATATCAACCCAAAAGTGAATGAGG  
AAAATGCTTCATTAGTTTCCCCTAGCAGACTTTTACTTCTTACACTGCTACACCATTACTTCTTGAGACATT  
TGTAAGTTCTTTGATACAGAAGAGTTATATTTAGAAGTCTTTAATGAAGGG

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**FIGURE 2999**

CAGGACCCAAGGAACCAAAATTGCATCTGATGGTCGTGTGTTTGAAGTGAGTCTTGCTGATTTGCAGAATGATGA  
AGTTGCATTTAGAAAATTCAAGCTGATTACTGAAGATGTTTCAGGGTAAAAACTGCCTGACTAACTTCCATGGCGT  
GGATCTTACCAGTGACAAAATGTGTTCCATGGTCAAAAATGGCAGACAATGATTGAAGCTCACGTTGATGTCAA  
GACTACCGATGGTTACTTGCTTCGTCTGTTCTGTGTTGGTTTTACTAAAAACGCAACAATCAGATACGGAAGAC  
CTCTTATGCTCAGTACCAGCCAAATCCGGAAGAAGATGATGGAAATCATGACCCGAGAGGTGCAGACAAATGACT  
TGAAAGAAGTGGTCAATAAATTGATTCCAGACAGCATTGGAAAAGACGTAGAAAAGGCTTGCCAATCTATTTATC  
CTCTCCATGATGTCTTCGTTAGAAAAGTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGC  
TTCATGGTGAAGGCTGTAGTTCTGGAAAAGCCACTGGGGACGAGACAGGTGTTAAAGTTGAACGAGCTGATGGAT  
ATGAACTACCAGTCCAAGAATCTGTTTAAAATTCAGACTTCAAATAGTGTCAAATAAAAAGTGCTATT



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**FIGURE 3000**

CTGACCAGCACCATGGTGGTTGACAAGAACAAGCGCCTTACGAAAGGTGGCAAAAAGGGAGCCAAGAAGAAAGTG  
GTTGATCCATTTTCTAAGAAAGATTGGTACGATGTGAACGCACCTGCTATGTTCAATATAAGAAATATTGGAAAG  
ACGCTCGTCACCAGGACCCAAGGAACCAAAATTGCATCTGATGGTCGTGTGTTTGAAGTGAGTCTTGCTGATTTG  
CAGAATGATGAAGTTGCATTTAGAAAATTCAAGCTGATTACTGAAGATGTTTCAGGGTAAAAACTGCCTGACTAAC  
TTCCATGGCGTGGATCTTACCAGTGACAAAATGTGTTCCATGGTCAAAAAATGGCAGACAATGATTGAAGCTCAC  
GTTGATGTCAAGACTACCGATGGTTACTTGCTTCGTCTGTTCTGTGTTGGTTTTACTAAAAAACGCAACAATCAG  
ATACGGAAGACCTCTTATGCTCAGCACCAGCAGGTCCGCCAAATCCGGAAGAAGATGATGGAAATCATGACCCGA  
GAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTGATTCCAGACAGCATTGGAAAAGACGTAGAAAAG  
GCTTGCCAATCTATTTATCCTCTCCATGATGTCTTCGTTAGAAAAGTAAAAATGCTGAAGAAGCCCAAGTTTGAA  
TTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCTGTAGTTCTGGAAAAGCCACTGGGGACGAGACAGGTGTTAAA  
GTTGAACGAGCTGATGGATATGAACTACCAGTCCAAGAATCTGTTTAAAAATTCAGACTTCAAATAGTGTCAAATA  
AAAAGTGCTATT

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**FIGURE 3001**

MVVDKNKRLTKGGKKGAKKKVVDPFSSKKDWYDVNAPAMFNIRNIGKTLVTRTQGTKIASDGRVFEVSLADLQND  
VAFRKFKLITEDVQGKNCLTNFHGVDLTSDKMCSMVKKWQTMIEAHVDVKTTDGYLLRLFCVGF TKKRNNQIRKT  
SYAQHQQVRQIRKKMMEIMTREVQTNDLKEVVNKLIPDSIGKDVEKACQSIYPLHDVFVRKVKMLKKPKFELGKL  
MELHGECCSSGKATGDETGVKVERADGYELPVQESV

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**FIGURE 3002**

GGGAGAGTGAGGATGGCAGAGACCAGTGCCTTGCCACCGGCTTCGGGGAGCTCGAGGTGCTGGCTGTGGGGATG  
GTGCTACTGGTGAAGCTCTCTCCGGTCTCAGCCTCAATACCCTGACCATCTTCTCTTTCTGCAAGACCCCGGAG  
CTGCGGACTCCCTGCCACCTACTGGTGTGAGCTTGCTCTTGCGGACAGTGGGATCAGCCTGAATGCCCTCGTT  
GCAGCCACATCCAGCCTTCTCCGTGTCTCCACAGGCGCTGGCCCTACGGCTCGGACGGCTGCCAGGCTCACGGC  
TTCCAGGGCTTTGTGACAGCGTTGGCCAGCATCTGCAGCAGTGCAGCCATCGCATGGGGGCGTTATCACCCTAC  
TGCACCCGTAGCCAGCTGGCTGGAACCTCAGCCGTCTCTCTGGTGTCTTCGTGTGGCTGTCTTCTGCCCTCTGG  
GCAGCTCTGCCCCCTCTGGGTGGGGTCACTATGACTATGAGCCACTGGGGACATGCTGCACCCTGGACTACTCC  
AAGGGGGACAGAACTTCACCAGCTTCTCTTCCCATGTCTTCTCAACTTCGCCATGCCCCCTCTTCATCACG  
ATCACTTCTTACAGTCTCATGGAGCAGAACTGGGGAAGAGTGGCCATCTCCAGGTAAACACCCTCTGCCAGCA  
AGGACGCTGTCTGCTGGCTGGGGCCCCCTATGCCATCTGTATCTATACGCAGTCATCGCAGACGTGACTTCCATC  
TCCCCAAACTGCAGATGGTGCCCGCCCTCATTGCCAAAATGGTGCCACGATCAATGCCATCAACTATGCCCTG  
GGCAATGAGATGGTCTGCAGGGGAATCTGGCAGTGCCTCTACCGCAGAAGAGGGAGAAGGACCGAACCAAGTGA

GCCTGCCACCCTGGAGTGAGCCCCAGGCCAGGAGGCTGTTCAGGAGTCTTGCCAGCAGCCTCGGTGGCCAAGC  
CCAGACACTCACCCACCTTCCCCAGTGGCCCCGTGGATCCTGGTCCTAGGCTGGACACAGGATTAGAAAGACAC  
CAGGCTGCACAGAAAGAGCCAGATGGACCTGAGTGTGCGTACAGCCCCCTACACTCAAGGCTGAGAGGCCCTCAG  
GAAAGTCATTCTTTTTTAAAAATAATAAATGTAAGGGGTACAGTGCAGTTTTGTTACATGGATAGATTGCC  
TAGTGGTGAAGTCTGGGCTTTTAGTGTAAACCATCACCTAATAATATACGTTGTACCCATTAAAGTTATTTCTCAT  
CCCTCACCCCTCCACCTTGTACCCCTCTGAGTCTCCAATGTCTATTATTCCACACTCCAATGTCCACGTGTAC  
ACATTATTTAGCTCCCACTTACAAGTGAGAACATGTGGTATTTGACTTTCTGTTTTTGGTATTATTTCACTTAAAA  
TAATGACCTCCAGTTTCATCCATGTTGCTGCAAAAGACATGATCTCGTTCTTTTTTATGGCAGTGTAGTATTTCCA  
TTCCATATACATATATAAACGTTATATATAATGTAACGTTTTCTTTATCCAATCATCTGTTGATGGATAGATTCCA  
TATCTTTGCTACTGTAAACAGAGCTGTGATAAGCATAACAAGTGCAGGTTTTCTTTTGATATACTGATTTCTTTTC  
CTTTGGGTAGATACCAGTAGTAGGACTGCTGGATCAAATGGTAGCTCTATTTTAAAGACAGTATGGAGAAATCAC  
CATACTGTTTTCCATAGGGGTTGTACTAATTTACAGTCCCACCAACAGTGTATAGGTGTTCCCTTTTCTCTGCAT  
CCTTACCAATATCTGTAATTTTTTGACTTTTAAATAATAGCCATTCTCATTGTGTGAGATAAGGTCTCATTGTG  
GTTTTAATTTCCATTTCTCGATGACTTTTGATGTTAAGCATTTTTTCATATGCTTCTTAGCCACGTGTATGTAT  
TCTTTTTGAAAAAATGTTTATTTCATGTCTTTTGCCACTTTTAAATGGCATTATTTGGATTTTTTTGTTGAGTT  
ATTTGAGTTTCTTATATATTCTGGATAATAGTCTGGATAATATATTCTGGATAATATATAATAGTCTTATATATT  
CTGGATATATTCTGGATACATGGTTTGCAAATATTTCTCCGGTCTGCACGTTGTTTCATTCTGTTGATGGTTTA  
TTTTGCTGTGCAGAACTTTTTTAGTTTAAATTAAGTCCATTGTCTAAAAAAAAAAAAAAAAA

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**FIGURE 3003**

MAETSALPTGFGEVLAVGMVLLVEALSGLSLNTLTIFSCKTPELRTPCHLLVLSLALADSGISLNALVAATS  
SLLRVSHRRWPYGS DGCQAHGFQGFVTALASICSSAAIAWGRYHHYCTRSQAWNSAVSLVLFVWLSSAFWAALP  
LLGWGHYDYEPLGTCCTLDYSKGRNFTSFLFTMSFFNFAMPLFITITSYSLMEQKLKSGHLQVNTTLPARTLL  
LGWGPYAILYLYAVIADVTSISPKLQMVPAIAKMPVTINAINYALGNEMVCRGIWQCLSPQKREKDRTK

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**FIGURE 3004**

GGGCAACCCGCGCGGGACCCCTTCCTCCCTAGTCGCGGGGAGTCTGAGAAAGCGCGCCTGTTTCGCGACCATCACG  
CACCTCCCCTCCGCTTGTGGCCATGTACCGCTACCTGGGCGAAGCGCTGTTGCTGTCCCGGGCCGGGCCGCTGC  
CCTGGGCTCGGCGTCCGCCGACTCGGCCGCGTTGCTGGGCTGGGCCCGGGACAGCCCGCCGCCCGCCGAGCC  
GGGGCTGGCATTGGCCGCCCGGCCACTACAGCGAGGCGGTGGCCGACCGCGAGGACGACCCCAACTTCTTCAA  
GATGGTGGAGGGCTTCTTCGATCGCGGCGCCAGCATCGTGGAGGACAAGCTGGTGGAGGACCTGAGGACCCGGGA  
GAGCGAGGAGCAGAAGCGGAACCGGCTGCGCGGCATCCTGCGGATCATCAAGCCCTGCAACCATGTGCTGAGTCT  
CTCCTTCCCCATCCGGCGCGACGACGGCTCCTGGGAGGTGATCGAAGGCTACCGGGCCAGCACAGCCAGCACCG  
CAGGCCCTGCAAGGGAGGTATCCGTACAGCACTGATGTGAGTGTAGATGAAGTAAAAGCTTTGGCTTCTCTGAT  
GACATACAAGTGTGCAGTGGTTGATGTGCCGTTTGGGGGTGCTAAAGCTGGTGTAAAGATCAATCCCAAGAACTA  
TACTGATAATGAATTGGAAAAGATCACAAGGAGGTTACCATGGAGCTAGCAAAAAAGGGCTTTATTGGTCTTG  
CATTGATGTGCTGCTCCAGACATGAGCACAGGTGAGCGGGAGATGTCTGGATCGCTGATACCTATGCCAGCAC  
CATAGGGCACTATGATATTAATGCACACGCTGTGTTACTGGTAAACCCATCAGCCAAGGGGGAATCCATGGACG  
CATCTCTGCTACTGGCCGTGGTGTCTTCCATGGGATTGAAAATTTTCATCAATGAAGCTTCTTACATGAGCATTTT  
AGGAATGACACCAGGGTTTGGAGATAAAACATTTGTGTTTCAGGGATTGGTAATGTGGGCCCTACACTCTATGAG  
ATATTTACATCGTTTTTGGTGTAAATGTATTGCTGTTGGTGAAGTCTGATGGGAGTATATGGAATCCAGATGGTAT  
TGACCCAAAGGAAGTGAAGACTTCAAATTGCAACATGGGTCCATTCTGGGCTTCCCAAGGCAAAGCCCTATGA  
AGGAAGCATCTTGGAGGCCGACTGTGACATACTGATCCAGCTGCCAGTGAGAAGCAGTTGACCAAAATCCAACGC  
ACCCAGAGTCAAAGCCAAGATCATTGCTGAAGGTGCCAATGGGCCAACAACTCCAGAAGCTGACAAGATCTTCCT  
GGAGAGAAACATTATGGTTATTCCAGATCTCTACTTGAATGCTGGAGGAGTGACAGTATCTTACTTTGAGTGGCT  
GAAGAATCTAAATCATGTGCTGATGCGCGTTTGACCTTCAAATATGAAAGGGATTCTAACTACCATTGCTCAT  
GTCTGTTCAAGAGAGTTTAGAAAAGAAAATTTGGAAGCATGGTGGAACTATTCCCATTGTACCCACGGCAGAGTT  
CCAAGACAGGATATCGGGTGCATCTGAGAAAGACATCGTGCACTCTGGCTTGGCATAACAATGGAGCGTTCTGC  
CAGGCAAATTATGCGCACAGCCATGAAGTATAACCTGGGATTGGACCTGAGAACAGCTGCCTATGTTAATGCCAT  
TGAGAAAGTCTTCAAAGTGTACAATGAAGCTGGTGTGACCTTCACATAGATGGATCATGGCTGACTTCTCTACTA  
TCCTCTTCACATGTAACCTTCTGCAGACCTATCACAAGTTTACATGTAACCACAGAAATCCCTTTCTCTCTGACT  
CATTAATAATGGATAACATTCTCAACAAGTCAATCCAAGTCAGCCCGTTAAGGAGAAAGAAATTAAGGTTAGCGG  
ATCATGTACAAGCTGAGTGTGAAAGTAGAAATCACCTACACCAGAGAGCCATTTTGGTATTTTGCCTTTAAATAA  
AAAGCCTCCTTTATCTGGCTGTGCAGCCTTGCTCTGTGGCTTTTCCCAACACAATCAGTGCTAGTGTGGGGAGG  
AACAGTCAAGAGCAGTCAGTTGCTTGCTTATTTTTCTGGATGAGTCTGGGACACACTGTAACCTTTAACACATTT  
AAGAAGTAGGTGTGTGGCCTTTTCAGAAGGTGGCATGGTCCCAAGTGAGTTCTTAGTATTTTATATCAGCAAAA  
TAATTCAATTTTGCAGGTTGCAAAACAAATATAAAACCTGTTTCTGTTTATGAATATTATTCTTTTAGAATAGAAT  
AAGTACATGCTGCTGTAATAAAATTGCCTTTAATCACTTAACAAGCCTAACCTTGACTCAAACAGTGAATGCCTA  
TAGAAATAATAAATGAAAAAACTAGTATTTTATATCATAAAACAATGTCAATTTATAGCTTATCATTATGAT  
TGTCCAGCAGACATTAAAAGCCCTGTGGATAATTAAAGTTATCTTCATACCTGCAAAATGGTGGAGGCTATTTTCA  
TTAAACTGTCAGAATTGCTTACCATAATTATGATACAGTCCAAAGAATGCAGTCACTTTTTATCATGTTAACT  
AATTGTTCTCTTTTGAAGATCTATGGTTGACTAATTAAACAATAATTCAAGTAGAGTGTCCCAGAAAAAACAC  
TTGGGCTCCCTGTTTGGAGTCTGGCTGGCTCTGAGCATTGCCAATGGCCCCTACTCACCTGACTTTGTATCCTCT  
CCTTTTAGAGGCTTTGCATTCTGCACCCAGCTTCACTAACAGTGGGCTGAAAACATCCTTGGGTTGAGTGTTC  
TTTGGGAGTTATTTGGCCAGGGCCTTTTGAACAGTAGTGTCCCATGAAGTGCTAGATAATATATGTGTAAGAGT  
CAGCTTTTTTTTTTTTTTAACTCTAACCCCTTCAGAAATTTCTAACTACTTTGTAAGTGCATGGCTTAACCT  
GGTGATAAAAGCAGTTATTAAGTCTACGTTTTCCAAAAA

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**FIGURE 3005**

MYRYLGEALLLSRAGPAALGSASADSAALLGWARGQPAAAPQPLALAAARRHYSEAVADREDDPNFFKMVEGFFD  
RGASIVEDKLVEDLRTRESEEQKRNVRGILRIKPCNHVLSLSFFIRRDDGSWEVIEGYRAQHSQHRTPCGGI  
RYSTDVSVDEVKALASLMTYKCAVVDVPFGGAKAGVKINPKNYTDNELEKITRRFTMELAKKGFIGPGIDVPAPD  
MSTGEREMSWIADTYASTIGHYDINAHACVTGKPISQGGIHGRISATGRGVFHGIENFINEASYMSILGMTPGFG  
DKTFVVQGFQNVGLHSMRYLHRFGAKCIAVGESDGSIWNPDGIDPKELEDFKLQHGSILGFPAKPYEGSILEAD  
CDILIPAASEKQLTKSNAPRVKAKIIAEGANGPTTPEADKIFLERNIMVIPDLYLNAGGVTVSYFEWLKLNHVS  
YGRLTFKYERDSNYHLLMSVQESLERKFGKHGGTIPVPTAEFQDRISGASEKDIVHSGLAYTMERSARQIMRTA  
MKYNLGLDLRTAAYVNAIEKVFKVYNEAGVTFT

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**FIGURE 3006**

ATGGGGGAGAATATCATTGTAGAAAATGGAAACAGTGTGGATCAAGGTAGAGTGGATCTCGTGCAGGGTCCCCTT  
GGTGAACAGTGGCCATGTCCGCAACACTGGGTGCATTGGGACAGCACCAGGTATGAACCTCATCATAGCAGCCAT  
CACAAGGACAAGGCCATTAAGAAATTCGTCATTCAAACATAGTGGAGGCCACAGCAGTCAGGGACATTTCTGAA  
GCGAGCGTCTTTGATGCCTATGTGCGTCCCAAGCTGTATGTGAAGCTACATTACTGTGTCTTCACTTCTGCTGTG  
TCTACGCTTCTCTTCTTTACCTTAA

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**FIGURE 3007**

MGENIIVENGNSVDQGRVDLVQGFLGEQWPCPQHVVHWDSTRYEPHSSHHKDKAIKKFVIQNIVEATAVRDISE  
ASVFDAYVRPKLYVKLHYCVFTSAVSTILLFFT



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**FIGURE 3008**

GCAGCCCAGCCAAGCACTGTCAGGAATCCTGTGAAGCAGCTCCAGCTATGTGTGAAGAAGAGGACAGCACTGCCT  
TGGTGTGTGACAATGGCTCTGGGCTCTGTAAGGCCGGCTTTGCTGGGGACGATGCTCCCAGGGCTGTTTTCCCAT  
CCATTGTGGGACGTCCCAGACATCAGGGGGTGATGGTGGGAATGGGACAAAAGACAGCTACGTGGGTGACGAAG  
CACAGAGCAAAAGAGGAATCCTGACCCTGAAGTACCCGATAGAACATGGCATCATCACCAACTGGGACGACATGG  
AAAAGATCTGGCACCCTCTTTCTACAATGAGCTTCGTGTTGCCCCTGAAGAGCATCCCACCCTGCTCACGGAGG  
CACCCCTGAACCCCAAGGCCAACCAGGAGAAAATGACTCAAATTATGTTTGAGACTTTCAATGTCCCAGCCATGT  
ATGTGGCTATCCAGGCGGTGCTGTCTCTCTATGCCTCTGGACGCACAACCTGGCATCGTGCTGGACTCTGGAGATG  
GTGTCACCCACAATGTCCCATCTATGAGGGCTATGCCTTGCCCCATGCCATCATGCGTCTGGATCTGGCTGGCC  
GAGATCTCACTGACTACCTCATGAAGATCCTGACTGAGCGTGGCTATTCTTCGTTACTACTGCTGAGCGTGAGA  
TTGTCCGGGACATCAAGGAGAACTGTGTTATGTAGCTCTGGACTTTGAAAATGAGATGGCCACTGCCGCATCCT  
CATCCTCCCTTGAGAAGAGTTACGAGTTGCCTGATGGGCAAGTGATCACCATCGGAAATGAACGTTTCCGCTGCC  
CAGAGACCCTGTTCCAGCCATCCTTCATCGGGATGGAGTCTGCTGGCATCCATGAAACCACCTACAACAGCATCA  
TGAAGTGTGATATTGACATCAGGAAGGACCTCTATGCTAACAATGTCCTATCAGGGGGCACCCTATGTACCCTG  
GCATTGCCGACCGAATGCAGAAGGAGATCACGGCCCTAGCACCCAGCACCATGAAGATCAAGATCATTGCCCTC  
CGGAGCGCAAATACTCTGTCTGGATCGGTGGCTCCATCCTGGCCTCTCTGTCCACCTTCCAGCAGATGTGGATCA  
GAAACAGGAATACGATGAAGCCGGGCCTTCCATTGTCCACCGCAAATGCTTCTTAAAACACTTTCTGCTCCTCT  
CTGTCTCTAGCACAACTGTGAATGTCTGTGGAATTATGCCTTCAGTTCTTTTCCAATCATTCCTAGCCAAA  
GCTCTGACTCGTTACCTATGTGTTTTTTAATAAATCTGAAATAGGCTACTGGTAA

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**FIGURE 3009**

MCEEEDSTALVCDNGSGLCKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKDSYVGDEAQSKRGILTLKYPIEH  
GIITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFNVFAMYVAIQAVLSLYASGRT  
TGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDF  
ENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYNSIMKCDIDIRKDYANNV  
LSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDEAGPSIVHRK  
CF

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## FIGURE 3010

ACTTTCCCTTTTGTAACTCAGCTGAAGGGAAACAAACAAAAGGAACAGAGGCCACTTGTATATATAGGTCTC  
TTCAGCATTTATTGGTGGCAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGC  
TGAGAATTGCACTGCAACCATGAGTGAGAACAATAAGAATTCCTTGGAGAGCAGCCTACGGCAACTAAAAATGCCA  
TTTCACCTGGAACCTTGATGGAGGGAGAAAACCTCCTTGGATGATTTTGAAGACAAAGTATTTTACCGGACTGAGTT  
TCAGAATCGTGAATTCAAAGCCACAATGTGCAACCTACTGGCCTATCTAAAGCACCTCAAAGGGCAAAACGAGGC  
AGCCCTGGAATGCTTACGTAAAGCTGAAGAGTTAATCCAGCAAGAGCATGCTGACCAGGCAGAAATCAGAAGTCT  
GGTCACCTGGGAAACTATGCCTGGGTCTACTATCACATGGGCCGACTCTCAGACGTTTCAAGTTTATGTAGACAA  
GGTGAAACATGTCTGTGAGAAGTTTTCCAGTCCCTATAGAATTGAGAGTCCAGAGCTTGACTGTGAGGAAGGGTG  
GACACGGTTAAAGTGTGGAGGAAACCAAAATGAAAGAGCGAAGGTGTGCTTTGAGAAGGCTCTGGAAAAGAAGCC  
AAAGAACCCAGAATTACCTCTGGACTGGCAATAGCAAGCTACCGTCTGGACAACCTGGCCACCATCTCAGAACGC  
CATTGACCCTCTGAGGCAAGCCATTGCGCTGAATCCTGACAACCAGTACCTTAAAGTCCTCTGGCTCTGAAGCT  
TCATAAGATGCGTGAAGAAGGTGAAGAGGAAGGTGAAGGAGAGAAGTTAGTTGAAGAAGCCTTGGAGAAAGCCCC  
AGGTGTAACAGATGTTCTTCGAGTGCAGCCAAGTTTTATCGAAGAAAAGATGAGCCAGACAAAGCGATTGAACT  
GCTTAAAAAGGCTTTAGAATACATAACCAACAATGCCTACCTGCATTGCCAAATTGGGTGCTGCTATAGGGCAAA  
AGTCTTCCAAGTAATGAATCTAAGAGAGAATGGAATGTATGGGAAAAGAAAGTTACTGGAACATAATAGGACACGC  
TGTTGGCTCATCTGAAGAAAGCTGATGAGGCCAATGATAATCTCTTCCGTGTCTGTTCCATTCTTGCCAGCCTCCA  
TGCTCTAGCAGATCAGTATGAAGACGCAGAGTATTACTTCCAAAAGGAATTCAGTAAAGAGCTTACTCCTGTAGC  
GAAACAACTGCTCCATCTGCGGTATGGCAACTTTTCAGCTGTACCAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAAGATGAAAGACAACTGCAAAAAATTGC  
CAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGA  
AAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTG  
GAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG  
TTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGAATAAGACACTGGCCATACCACTGGACAGGGT  
TATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGGGGGGTAGG  
TCCACGGGCTTGGTGATAGAATTATTTCTCGATTGACTTCTTGAGTGCAATTTGAACTGTAACATTTGCTTAGTC  
ACCTTTAGTGGAGTAATCTACTGGGCTTGTTCCTATATTTATATAAAGCAGCCAAATCCTTCATGTAATATTGAA  
GTCCATTTTGTCAATGTTGTTCCATACTTGGAGTCATTTTGCAATCCCATAGAGGTTAGTCCTGCATAGCCAGTAA  
TGTGCTAAGTTCATCCAAAAGCTGGCGGACCAAGTCTAAATAGGGCTCAGTATCCCCCATCGCTTATCTCTGCC  
TCCTTCCTCCTCCTTCCCAGTCTATCATCAACCTTGAGTATTCTACACAATGTGAATTCAGTGCCTGATTAATT  
GAGGTGGCAACATAGTTTGAGACGAGGGCAGAGAACAGGAAGATACATAGCTAGAAGCGACGGGTACAAAAAGCA  
ATGTGTACAAGAAGACTTTTCAGCAAGTATACAGAGAGTTCACCTCTACTCTGCCCTCCTCATAGTCATAATGTAG  
CAAGTAAAGAAATGAGAATGGATTCTGTACAATACACTAGAAACCAACATAATGTATTCTTTAAACCTGTGTGA  
AAAA

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**FIGURE 3011**

MSENNKNSLESSLRQLKCHFTWNLMEGENSLDDFEDKVFYRTEFQNRREFKATMCNLLAYLKHLKGQNEAALECLR  
KAEELIQQEHADQAEIRSLVTWGN YAWVYYHMGRLSDVQIYVDKVKHVCEKFSSPYRIESPELDCEEGWTRLKCG  
GNQNERAKVCFEKALEKKPKNPEFTSGLAIASYRLDNWPPSQNAIDPLRQAIRLNP DNQY LK VLLAL KLH KMREE  
GEEEGEGEKLVEEALEKAPGVT DVLRSAKFYRRKDEPDKAIELLKKALEYIPNNAYLHCQIGCCYRAKVFQVMN  
LRENGMYGKRKLELIGHAVAH LKKADEANDNLFRVCSILASLHALADQYEDA EYFQKEFSKELTPVAKQLHL  
RYGNFQLYQMKCEDKAIH H FIEGVKINQKSREKEKMDKLQKI AKMRLSKNGADSEALHVLAF LQELNEKMQQAD  
EDSERGLESGSLIPSASSWNGE

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**FIGURE 3012**

CTCCCGGACGTAGGTAGTTTGTGGGCGGGTTCTGAGGCCCTTGCTTCTCTTTACTTTTCCACTCTAGGCCACGA  
TGCCGCAGTACCAGACCTGGGAGGAGTTCAGCCGCGCTGCCGAGAAGCTTTACCTCGCTGACCCTATGAAGGCAC  
GTGTGGTTCTCAAATATAGGCATTCTGATGGGAACCTGTGTGTAAAGTAACAGATGATTTAGTTTGTGGTGT  
ATAAAACAGACCAAGCTCAAGATGTAAAGAAGATTGAGAAATCCACAGTCAACTAATGCGACTTATGGTAGCCA  
AGGAAGCCCGCAATGTATTTGGAGCATAAAATGTATGCTGTTGTGACCAATAAAATATAAAATATGGTAATTGGA  
ATTAACCCACACCATAGTATGCATTGTTATACATACTGTGTACCTAATTATGTATAGCAGTGTAGTCTCAATTA  
TATCTAAAAGTAATTGTGACTAACAAGTATGCTTTGCCTTATTTCCACATTTAAAGTACCTGTTAATATAAGGGA  
TTTGTAGTATCAGCTTGTTGAGCAATGACTTTGAATCTAGTTTTCAGTGATCAGAAGCAGCATTTATTTGAGTGT  
ATGAATGGAATGATGATCACTGTGCTATAATGTACTGAAACCACCATATTACAGAAATATTTACTACATATTTTC  
CATCTGTAGTTTCTCAGAAGGGCTATGGATTAGTTTGAAGTGTCAAATCCTTGCATACTTCTGTGACACCCCTGC  
CCATTTTCTGTCTTTAATTAACCAAGGTGTTAGGTGTTACTGTGCACTGTTATGTTTTCCAGTAACTAGAAG  
TACGATATTTGATAATTATATTTGTATCCTAAATTTACCACCTAAATGTAATGTTGATTCCTCAAGAATGAAAT  
GAAGGCACTACATTGAAATATGTTTTGTATAAATTTGTCATGTTGAACAACATTTTA

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**FIGURE 3013A**

CTTCTCTCCCAGGGCGGIGCGACCCGGAGCTCCAGCGCCCGAGTCTCCACTTCGTTTGCTGAAACTTGCTTTCTA  
CCAGCTAAGAACCATGCTGCGAGTGATTGTGGAATCTGCCAGCAATATCCCTAAAACGAAATTTGGCAAGCCGGA  
TCCTATTGTTTCTGTCAATTTTAAGGATGAGAAAAAGAAAACAAAGAAAGTTGATAATGAATTGAACCTGTCTG  
GAATGAGATTTTGGAGTTTGACTTGAGGGGTATACCACTGGACTTTTCATCTTCCCTTGGGATTATTGTGAAAGA  
TTTTGAGACAATTGGACAAAATAAATTAATTGGCACGGCGACTGTAGCCCTGAAGGACCTGACTGGTGACCAGAG  
CAGATCCCTGCCGTACAAGCTGATCTCCCTGCTAAATGAAAAAGGGCAAGATACTGGGGCCACCATTGACTTGGT  
GATCGGCTATGATCCGCCTTCTGCTCCACATCCAATGACCTGAGCGGGCCAGCGTGCCAGGCATGGGAGGAGA  
TGGGGAAGAAGATGAAGGTGATGAAGACAGGTTGGACAATGCAGTCAGGGGCCCTGGGCCCCAAGGGGCCAGTTGG  
GACGGTGTGGAAGCTCAGCTTGCTCGGAGGCTCACAAAGTAAAGAACAGCCGGCGGATGCTGTCAAATAAGCC  
ACAGGACTTCCAGATCCGCGTCCGAGTGATTGAGGGCCGACAGTTAAGTGGTAACAACATAAGGCCGTGGTCAA  
AGTTCACGTCTGTGGCCAGACACACCGAACAAGAATCAAGAGAGGAAACAACCCTTTTTTTGATGAGTTGTTTTT  
CTACAATGTCAACATGACCCCTTCTGAATTGATGGATGAGATCATCAGCATCCGGGTTTATAATTCTCACTCTCT  
GCGGGCAGATTGTCTGATGGGGGAATTTAAGATTGATGTTGGATTGTTTATGATGAACCTGGCCATGCTGTCAT  
GAGAAAGTGGCTTCTTCTCAATGACCCGGAAGATACCAGTTCAGGTTCTAAAGTTATATGAAAGTCAGCATGTT  
TGTCCTGGGAACCGGAGATGAGCCTCCTCCTGAGAGACGAGATCGTGATAATGACAGTGATGATGTGGAGAGTAA  
TTTGTTACTCCCTGCTGGCATTGCCCTCCGGTGGGTGACCTTCTTGCTGAAAATCTACCGAGCTGAGGACATCCC  
CCAGATGGATGATGCCTTCTCACAGACAGTAAAGGAAATATTTGGAGGCAATGCAGATAAGAAAAATCTCGTGGA  
TCCTTTTGTAGAAGTTTCTTTGCTGGAATAAGGTTTGTACAAACATAATTGAGAAAAATGCAACCCAGAGTG  
GAATCAGGTGCTCAATCTTCAGATCAAGTTTCTTCAGTGTGTGAAAAAATAAACTAACAATATATGACTGGGA  
CCGTCTTACTAAAAATGATGTAGTTGGAACAACATATCTACACCTCTCTAAAATGCTGCCTCTGGTGGGGAAGT  
GGAAGATTCTCATCTTCGGGAACCTGGGGCTGCATCATATACAGTAAACACAGGAGAAACAGAGGTAGGCTTTGT  
TCCAACGTTTGGACCTTGTTACCTGAATCTTTATGGAAGCCCCAGGGAGTACACGGGATTCCCAGACCCCTATGA  
TGAGCTGAATACTGGAAGGGGGAAGGAGTTGCCACAGAGGCAGGATCTTGTTGAATTAGCCACTTTTCTTGA  
GAAGACACCACCAGATAAAAAAGCTTGAGCCCATTTCAAATGATGACCTGCTGGTTGTTGAGAAATACCAGCGAAG  
GCGGAAGTACAGCCTGTCTGCCGTGTTTCATTACGCCACCATGTTGCAAGATGTTGGTGAGGCCATTCAGTTTGA  
AGTCAGCATTTGGAACTATGGCAACAAGTTTGACACCACCTGTAAGCCTTTGGCATCAACAACCTCAGTACAGCCG  
TGCTGTATTTGATGGCACTACTATTACTTTGCCCTTGGGCCCCACCAAGCCAGTTGTTACCTGACTTCATA  
CTGGGAGGATATTAGTCATCGCCTGGATGCGGTGAACACTCTCCTAGCTATGGCAGAACGGCTGCAAAACAAATAT  
AGAAGCTCTAAAATCAGGGATACAAGGTAAATTCCTGCAACCAGCTGGCTGAATTGTGGCTGAAGCTGATAGA  
TGAAGTTATAGAAGACACGAGATACACGTTGCCTCTCACAGAAGGAAAAGCCAACGTCACAGTTCTCGATACTCA  
GATCCGAAAGCTGCGGTCCAGGTCTCTCTCCCAAATACATGAGGCGGCTGTGAGGATGAGGTGCGAAGCCACAGA  
TGTGAAGTCCACACTGGCAGAAATTGAGGACTGGCTTGATAAATTAATGCAGCTGACTGAAGAGCCACAGAACAG  
CATGCCTGACATCATCATCTGGATGATCCGGGGAGAGAAGAGACTGGCCTATGCACGAATTCCCGCACATCAGGT  
CTTGTACTCCACCAGTGGTGAGAATGCATCTGGAATACTGTGGGAAAACCCAAACCATCTTTCTGAAGTATCC  
ACAGGAGAAAAACAACGGGCCAAAGGTGCCGTGAGGTTGCGAGTGAACATCTGGCTAGGCTTAAGTGCTGTGGA  
GAAGAAGTTTAACAGCTTCGCAGAAGGAACCTTACCCTCTTTGCTGAAATGTATGAAAATCAAGCTCTCATGTT  
TGGAATAATGGGGTACTTCTGGATTAGTAGGACGTCAAGTTTTCTGATGTACAGGAAAAATAAACTCAAGAG  
GGAATTTTTCTGCCTCCAAAAGGCTGGGAATGGGAAGGAGAGTGGAATGATTGATCCTGAAAGAAGCTTGCTGAC  
TGAGGCAGATGCAGGTCACACGGAGTTCACTGATGAAGTCTATCAGAACGAGAGCCGCTACCCCGGGGGCGACTG  
GAAGCCGGCCGAGGACCTACACGGATGCGAACGGCGATAAAGCAGCATCACCCAGCGAGTTGACTTGTCTCTCC  
AGGTTGGGAATGGGAAGATGATGCATGGTCTTATGACATAAATCGAGCGGTGGATGAGAAAGGCTGGGAATATGG  
AATCACCATTCTCTGATCATAAGCCCAAATCTTGGGTTGCAGCAGAGAAAAATGTACCACACTCATAGACGGCG  
AAGGCTGGTCCGAAAACGCAAGAAAGATTTAACACAGACTGCTTCAAGCACCGCAAGGGCCATGGAGGAATTGCA  
AGACCAAGAGGGCTGGGAATATGCTTCTCTAATTGGCTGGAAATTTCACTGGAAACAACGTAGTTCAGATACCTT  
CCGCCGAGACGCTGGAGGAGAAAAATGGCTCCTTCAGAAACACATGGTGCAGCTGCCATCTTTAAACTTGAAGG  
TGCCCTTGGGGCAGACACTACCGAAGATGGGGATGAGAAGAGCCTGGAGAAACAGAAGCACAGTGCCACCCTGT  
GTTCCGAGCAAAACACCCCATTTGTTTCTGCAATTTTGACAGAGTCTACATCTACCATCTGCGCTGCTATGTCTA  
TCAAGCCAGAAACCTCTTGGCTTTAGATAAGGATAGCTTTTCAGATCCATATGCTCATATCTGTTTCTCTCATCG

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**FIGURE 3013B**

GAGCAAAACCACTGAGATCATCCATTCAACCCTGAATCCCACGTGGGACCAAACAATTATATTGATGAAGTTGA  
AATCTATGGGGAACCCCAACAGTTCTACAGAATCCACCCAAAGTTATCATGGAACTTTTTGACAATGACCAAGT  
GGGCAAAGATGAATTTTTAGGACGAAGCATTCTCTCTCTGTGGTGAACTGAACTCAGAAATGGACATCACACC  
CAAACCTCTCTGGCACCAGTAATGAATGGAGACAAAGCCTGCGGGGATGTTCTTGTAACCTGCAGAGCTGATTCT  
GAGGGGCAAGGATGGCTCCAACCTTCCCATTCTTCCCCCTCAAAGGGCGCCAAATCTATACATGGTCCCCCAGGG  
GATCAGGCTGTGGTCCAGCTCACTGCCATTGAGATTCTAGCTTGGGGCTTAAGAAATATGAAAACTTCCAGAT  
GGCTTCTATCATATCCCCAGTCTTGTGTGGAGTGTGGAGGAGAAAGGGTGGAAATCGGTGGTGATCAAAAACCT  
TAAGAAGACACCCAACTTTCCAAGTTCTGTTCTTTCATGAAAGTGTCTTGCCCAAGGAGGAATTGTACATGCC  
CCCCTGGTGATCAAGGTCATCGACCACAGGCAGTTTGGGCGGAAGCCTGTCGTCGCGCCAGTGCACCATCGAGCG  
CCTGGACCGCTTTCGCTGTGACCCCTTATGCAGGGAAAGAGGACATCGTCCCACAGCTCAAAGCCTCCCTTCTGTCT  
TGCCCCACCATGCCGGGACATCGTTATCGAAATGGAAGACACCAAACCATTACTGGCTTCTAAGCTGACAGAAAA  
GGAGGAAGAAATCGTGGACTGGTGGAGTAAATTTTATGCTTCTCAGGGGAACATGAAAAATGCCGGACAGTATAT  
TCAGAAAGGCTATTCCAAGCTCAAGATATATAATTGTGAAGTAGAAAAATGTAGCAGAATTTGAGGGCTGACAGA  
CTTCTCAGATACGTTCAAGTTGTACCGAGGCAAGTCGGATGAAAAATGAAGATCCTTCTGTGGTTGGAGAGTTTAA  
GGGCTCCTTTTCGGATCTACCCCTGCGGGATGACCCAGCGTGCCAGCCCCCTCCAGACAGTTTTCGGGAATTACC  
TGACAGCGTCCCACAGGAATGCACGGTTAGGATTTACATTGTTTCGAGGCTTAGAGCTCCAGCCCCAGGACAACAA  
TGGCCTGTGTGACCCCTTACATAAAAAATAACACTGGGCAAAAAAGTCATTGAAGACCGAGATCACTACATTTCCCAA  
CACTCTCAACCCAGTCTTTGGCAGGATGTACGAACAGCTGCTACTTACCTCAAGAAAAAGACCTGAAAAATTC  
TGCTATGATTATGACACCTTTACCCGGGATGAAAAAGTAGGAGAAACAATTATTGATCTGAAAAACCGATTCTCT  
TTCCCGCTTTGGGTCCCCTGCGGCATACCAGAGGAGTACTGTGTTTCTGGAGTCAATACCTGGCGAGATCAACT  
GAGACCAACACAGCTGCTTCAAATGTGCGCCAGATTCAAAGGCTTCCCACAACCCATCTCTTCCGAAGATGGGAG  
TAGAATCAGATATGGAGGACGAGACTACAGCTTGGATGAATTTGAAGCCAACAAATCTGCAACAGCACCTCGG  
GGCCCTGAAGAGCGGCTTGTCTTTCACATCCTCAGGACTCAGGGGCTGGTCCCTGAGCACGTGGAACAAGGAC  
TTTGACAGCACCTTCCAGCCCAACATTTCCAGGGGAAAACTTCAGATGTGGGTGGATGTTTTCCCAAGAGTTT  
GGGGCCACCAGGCCCTCCTTTCAACATCACACCCCGGAAAGCCAAGAAATACTACCTGCGTGTGATCATCTGGAA  
CACCAGGACGTTATCTTGGACGAGAAAAAGCATCACAGGAGAGGAAATGAGTGACATCTACGTCAAAGGCTGGAT  
TCCTGGCAATGAAGAAAAACAAACAGAAAAACAGATGTCCATTACAGATCTTTGGATGGTGAAGGGAATTTTAACTG  
GCGATTGTGTTTTCCGTTTGACTACCTTCCAGCCGAACAACTCTGTATCGTTGCGAAAAAGAGCATTCTCTGGAG  
TATTGACCAACGGAATTTTGAATCCCACCCAGGCTGATCATTAGATATGGGACAATGACAAGTTTTCTCTGGA  
TGACTACTTGGGTTTCTTAGAATTGACTTGCGTCACACGATCATTCTGCAAAATCACCAGAGAAATGCAGGTT  
GGACATGATTCCGGACCTCAAAGCCATGAACCCCTTAAAGCCAAGACAGCCTCCCTCTTTGAGCAGAAGTCCAT  
GAAAGGATGGTGGCCATGCTACGCAGAGAAAGATGGCGCCCGCGTAATGGCTGGGAAAGTGGAGATGACATTGGA  
AATCTCAACGAGAAGGAGGCCGACGAGAGGCCAGCCGGGAAGGGCGGGACGAACCAACATGAACCCCAAGCT  
GGACTTACCAATCGACCAGAAACCTCCTTCTCTGGTTACCAACCCATGCAAGACCATGAAGTTTCATCGTGTG  
GCGCCGCTTTAAGTGGGTCATCATCGGCTTGCTGTTCTGCTTATCCTGCTGCTCTTCGTGGCCGTGCTCCTCTA  
CTCTTTGCCGAATATTTGTCAATGAAGATTGTAAAGCCAAATGTGTAACAAAGGCAAAGGCTTCATTTCAAGAG  
TCATCCAGCAATGAGAGAATCCTGCCTCTGTAGACCAACATCCAGTGTGATTTGTGTCTGAGACCACACCCAG  
TAGCAGGTTACGCCATGTCACCGAGCCCCATTGATCCCAGAGGGTCTTAGTCCTGGAAAGTCAGGCCAACAGC  
AACGTTTGACATCATGTTATCTCTTAAGTATTAAAAGTTTTATTTCTAAAGTTTAAATCATGTTTTCAAAATAT  
TTTTCAAGGTGGCTGGTTCCATTTAAAAATCATCTTTTTATATGTGTCTTCGGTCTAGACTTCAGCTTTTGGAA  
ATTGCTAAATAGAATTCAAAAATCTCTGCATCCTGAGGTGATACTTTCATATTGTAAATCAACTGAAAGAGCTG  
TGCATTATAAAATCAGTTAGAATAGTTAGAACAATCTTATTTATGCCACAACCATTGCTATATTTGTATGGA  
TGTCATAAAAGTCTATTTAACCTCTGTAATGAACTAAATAAAATGTTTCACCTTTAAAAAATAAAAAA  
AAAA

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**FIGURE 3014**

MLRVIVESASNIPKTKFGKPDFIVSVIFKDEKKKTKKVDNELNPVWNEILEFDLRGIPLD FSSSLGIIVKDFETI  
GQNK LIGTATVALKDLTGDQSRSLPYKLISLLNEKGQDTGATIDLVI GYDPPSAPHENDLSGSPVPGMGGDGEED  
EGDEDRLDNAVRGPGPKGPVGTVSEAQLARRLTKVKNSRRMLS NKPQDFQIRVRVIEGRQLSGNNIRPVVKVHVC  
GQTHRTRIKRGNNPFFDELFFYNVNMTPELMDDEIISIRVYNSSHSLRADCLMGEFKIDVGFVYDEPGHAVMRKWL  
LLNDPEDTSSGSGKGYMKVSMFVLGTGDEPPPERDRDNDSDDVESNLLLPAGIALRWVTFLLKIYRAEDIPQMDD  
AFSQT VKEIFGGNADKKNLVDPFVEVSFAGKKVCTNIEKNANPEWNQV VNLQIKFPSVCEKIKLTIYDWRDLTK  
NDVVGT TTYLHLSKIAASGGEVEDFSSSGTGAASYTVNTGETEVGFVPTFGPCYLNLYGSPREYTGFPDPYDELNT  
GKGEGVAYRGRILVELATFLEKTPDKKLEPISNDDL VVEKYQRRRKYSLSAVFHSATMLQDVGEA IQFEVSIG  
NYGNKFDTTCKPLASTTQYSRAVFDGNYYYLPWAHTKPVVTLTSYWEDISHRLDAVNTLLAMAERLQTNIEALK  
SGIQGKIPANQLAELWLKLIDEVIEDTRYTLPLTEGKANVTVLDTQIRKLRSRSLSQIHEAAVRMRSEATDVKST  
LAEIEDWLDKLMQLTEEPQNSMPDIIWMIRGEKRLAYARIPAHQVLYSTGENASGKYCGKTQTIFLKYPQ EKN  
NGPKVPVELRVNIWLGLSAVEKKFNSFAEGTFTVFAEMYENQALMFGKWGTSGLVGRHKFSDVTGKIKLKREFFL  
PPKGWEWEGEWIVDPERSLLTEADAGHTEFTDEVYQNESRYPGGDWKP AEDTYTDANGDKAASPSELTCPPGWEW  
EDDAWSYDINRAVDEKGWEYGITIPDHKPKSWVAEKM YHTRRRRLVRKRKDLTQTASSTARAMEELQDQEG  
WEYASLIGWKFWKQRSSDTFRRRRRWRRKMAPSETHGAAIFKLEGALGADTTEDGDEKSLEKQKHSATTVFGAN  
TPIVSCNFDRVYIYHLRCYVYQARNLLALDKDSFSDPYAHICFLHRSKTT EIIHSTLNPTWDQTIIFDEVEIYGE  
PQTVLQNP PKVIMELFDNDQVGKDEFLGRSIFSPVVKLNSEMDITPKLLWHPVMNGDKACGDVLVTAELILRGKD  
GSNLPILPPQ RAPNLYMVPQGIRPVVQLTAIEILAWGLRNMKNFQMASITSPSLVVECGGERVESVVIKNLKKTP  
NFPSSVLFMKVFLPKEELYMPPLVIKVIDHRQFGRKPVVGQCTIERLDRFRCDPYAGKEDIVPQLKASLLSAPPC  
RDIVIEMEDTKPLLASKLTEKEEEIVDWWSKFYASSGEHEKCGQYIQKGYSKLKIYNCELENVAEFEGLTDFSDT  
FKLYRGKSDENEDPSVVGFEFKGSFRIYPLPDDPSVPAPPRQFRELPDSVPQECTVRIYIIVRGLELQPDNNGLCD  
PYIKITLGKKVIEDRDHYIPNTLNPVFGRM YELSCYLPQEKDLKISVYDYDTFTRDEKVGETIIDLENRFLSRFG  
SHCGIPEEYCVSGVNTWRDQLRPTQLLQNVARFKGFPQPI LSEDGSRIRYGGRDYSLDEFEANKILHQHLGAPEE  
RLALHILRTQGLVPEHVETRTLHSTFQPNISQGKLQMWVDVFPKSLGPPGPPFNITPRKAKKYYLRV I IWNTKDV  
ILDEKSITGEEMSDIYVKGWIPGNEENKQKTDVHYRSLDGE GNFNWRVFVFPFDYLPAEQLCIVAKKEHFWSIDQT  
EFRIPRLIIQIWDNDKFSLDDYLGFLDLRHTIIPAKSPEKCR LDMIPDLKAMNPLKAKTASLFEQKSMKGWW  
PCYAEKDGARVMAGKVEMTLEILNEKEADERPAGKGRDEPNMNP KLDLPNRPETSFLWFTNPCKTMKFIVWRRFK  
WVIIGLLFL LILLFLFVAVLLYSLPNYLSMKIVKPNV



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**FIGURE 3015**

GTGTGGACAACAGTGAGTATATGGGGAATGGAGACTTCTTACCCACCCGGCTGCAGGCCAGCAGGATGCTGTCA  
ACACAGTTTGTCAATTCAAAGACCCGCAGCAACCCTGAGAACAACGTGGGCCTTATCACACTGGATAATGACTGTG  
AAGTGCTGACCACACTCACCCAGACACTGGCCGTATCCTGTCCAAGCTACATACTGTCCAACCCAAAGGGCAAGA  
TCACCTTCTGCATGGGCATCCACGTGGCCCATCTGGCTCTGAAGCACCGACAAGGCAACAATCACAAGATCCGCA  
TCATTGCCCTTTGTGGGAAACCCGGTGGAGGACAATGAGAAGAATCTGGTGAAACTGGCTAAATGCCTCAAGAAGG  
AGAAAGTAAATGTTGACATTATCAATTTTGGGGAAGAGGAGGTGAACACAGAAAAGCTGACAGCCTTTGTAAACA  
CGTTGAATGGCAAAGATGGAACCGGTTCTCATCTGGTGACAGTGCCTCCTGGGCCAGTTTGGCTGATGCTCTCA  
TCAGTTTTCCGATTTTGGCTGGTGAAGGTGGTGCCATGATGGGTCTTGGTGCCAGTGACTTTGAATTTGGAGTAG  
ATCCAGTGCTGATCCTGAGCTGGCCTTGGTCCTTCGTGTATTTATGGAAGAGCAGCGGCAGCGGCAGGAGGAGG  
AGGCCCCGGCAGGCAGCTGCAGCTTCTGCTGCTGAGGCCGGGATTGCTACGACTGGGACTGAAGACTCAGACGATG  
CCCTGCTGAAGATGACCATCAGCCAGCAAGAGTTTGGCCACACTGGGCTTCTGACCTAAGCAGTATGACTGAGG  
AAGAGAAGATTGTTTGTGCCATGCAGATGTCCCTGCAGGGAGCAGAGTTTGGCCTGGCAGAATCAGCAGACATTG  
ATGCCAGCTCAGCCATGGACACATCTGAGCCAGCCAAGGAGGAGGATGATTACGACGTGATGCAAGACCCCTGAGT  
TCCTTCAGAGTGTCTAGAGAACCCTCCAGGTGTGGATCCCAACAATGAAGCCATTGAAATGCTGTGGGCTCCC  
TGGCCTCCCAGGCCACCAAGGACAGCAAGAAGGACAAGAAGGAGGAAGACAAGAAGTGAGACTGGAGGGAAGGG  
TAGCTGAGCCTGCTCAGGGGACTGCATGGGAAGCACGGAATATAGGGTTAGATGTGTGTTATCTGTAATCATTAT  
AGCCTAAATAAAGCTTGGCAA

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**FIGURE 3016**

GGGGATTGGCTAGAAGGCTGGGCCGGCAGCGGTTGTGAGGAGTTAGCTCGCGGCATTGCAGGCTCTGAGAGGAG  
GGGACCCGGTTCCCGGGTGAGTGTCAGGCATGCCAGCGGAACGGCCCCGCGGGCAGCGGCGGCTCGGAGGCTCCA  
GCAATGGTTGAACAACTGGACACTGCTGTGATTACCCCGCCATGCTAGAAGAGGAAGAACAGCTTGAAGCTGCT  
GGACTAGAGAGAGAGCGGAAGATGCTGGAAAAGGCTCGCATGTCTTGGGATAGAGAGTCGACAGAAATTCGGTAC  
CGTAGACTTCAACATTTGCTTGAAAAAGCAATATATACTCCAAATTTTTATTGACGAAAATGGAACAGCAACAA  
TTAGAGGAACAGAAGAAGAAAGAAAAATTGGAGAGAAAAAGGAGTCTTTAAAGTTAAAAAGGTTAAAAATTCA  
ATTGATGCAAGTGAAGAGAAGCCAGTTATGAGGAAAAAAGAGGAAGAGAAGATGAATCATACAATATTTTCAGAG  
GTCATGTCAAAGAGGAAATTTGTCTGTGGCTAAAAAAAATAAAAAGGAGAATGAGGATGAAAACCTCCTCCTCT  
ACTAATCTCTGTGTGGAAGATCTTCAGAAAAATAAAGATTGCAATAGTATAATTAAAGATAGATTGTCTGAAACG  
GTTAGGCAGAAATACTAAATTTCTTTTTGACCCAGTCCGGAAGTGAATGGTCAGCCAGTACCTTTTCAACAACCA  
AAGCACTTCACTGGAGGAGTGATGCGATGGTACCAAGTAGAAGGCATGGAATGGCTTAGGATGCTTTGGGAAAAAT  
GGAATTAATGGCATTITAGCAGATGAAATGGGATTGGGTAAGACAGTTCAGTGCATTGCTACTATTGCATTGATG  
ATTTCAGAGAGGAGTACCAGGACCTTTTCTGTCTGTGGCCCTTTGTCTACACTTCCTAACTGGATGGCTGAATTC  
AAAAGATTTACACCAGATATCCCTACAATGTTATATCATGGAACCCAGGAGGAACGTCAAAAATTGGTAAGAAAT  
ATTTACAAACGGAAAGGGACTTTGCAGATTCATCCTGTGGTAATCACGTCATTTGAAATAGCCATGAGAGACCGA  
AATGCGTTACAGCATTGCTATTGGAATACTTAATAGTAGATGAAGGACACAGGATTAAGAATATGAAGTGCCGT  
CTAATCAGGGAGTTAAAACGATTCAATGCTGATAACAACTTCTTTTGACTGGTACTCCCTTGCAAAACAATTTA  
TCAGAACTTTGGTCATTGCTAACTTTTTGTTGCCAGATGATTTGATGACTTGAAAAGCTTTGAGTCTTGGTTT  
GACATCACTAGTCTTTCTGAACTGCTGAAGATATTATTGCTAAAGAAAAGAGAACAGAATGTATTGCATATGCTG  
CACCAGATTTTAAACACCTTTCTTATTGAGAAGACTGAAGTCTGATGTTGCTCTTGAAGTTTCTCCTAAACGAGAA  
GTAGTCGTTTTATGCTCCACTTTCAAAGAAGCAGGAGATCTTTTATACAGCCATTGTGAACCGTACAATTGCAAAAC  
ATGTTTGGATCCAGTGAGAAAGAAACAATTGAGTTAAGTCTACTGGTCGACCAAAACGACGAAGTAGAAAATCA  
ATAAATTACAGCAAAATAGATGATTTCCCTAATGAATTGGAATACTGATCAGTCAAATACAGCCAGAGGTGGAC  
CGAGAAAGAGCTGTTGTGGAAGTGAATATCCCTGTAGAATCTGAAGTTAATCTGAAGCTGCAGAATATAATGATG  
CTACTTCGTAAATGTTGTAATCATCCATATTTGATTGAATATCCTATAGACCCTGTTACACAAGAATTTAAGATC  
GATGAAGAATTGTTAACAATTTCTGGGAAGTCTTGATTTTGGATCGAATGCTGCCAGAACTAAAAAAGAGGT  
CACAAGGTGCTGCTTTTTTACAAATGACAAGCATGTTGGACATTTTGATGGATTACTGCCATCTCAGAGATTTT  
AACTTCAGCAGGCTTGATGGGTCCATGTCTTACTCAGAGAGAGAAAAAATGCACAGCTTCAACACGGATCCA  
GAGGTGTTTTATCTTCTTAGTGAGTACACGAGCTGGTGGCCTGGGCATTAATCTGACTGCAGCAGATACAGTTATC  
ATTTATGATAGTGATTGGAACCCCGAGTCGGATCTTCAGGCCAGGATAGATGTCATAGAATTGGTCAGACAAAG  
CCAGTTGTTGTTTATCGCCTTGTTCAGCAAACTATATCGATCAGAAAATTGTGGAAGAGCAGCTGCTAAAAGG  
AACTGGAAGTTGATCATCCATAAAAAATCATTTCAAAGGTGGTCAGTCTGGATTAAATCTGTCTAAGAATTTT  
TTAGATCCTAAGGAATTAATGGAATTATTAATCTAGAGATTATGAAAGGGAAATAAAAGGATCAAGAGAGAAG  
GTCATTAGTGATAAAGATCTAGAGTTGTTGTTAGATCGAAGTGATCTTATTGATCAAATGAATGCTTCAGGACCA  
ATTAAAGAGAAGATGGGGATATTCAAGATATTAGAAAATCTGAAGATTCCAGTCTGAATGTTTGTGTTTAAAGT  
GGAGCTCAAGAATAGCTTTTAAAGTTCTTATTTACATCTAGTGATTTCCCTGTATTGGGTTTGAATACTGATT  
GTCCACTTCACCTTTTTTATTATATCAGTTGACATGTAAGTACTAGTACCATGCGTACTTAAATAGATGGTAATTTT  
TGAGCCTTACCAAGAACAAAGAAGTATCCATATTAAGTTTAGATTTTCAGTTAATTTTGGAGCTGAGTAGTATT  
CTTGATACAGGCTGATGTGTACTTAACCACTTCAGATTTATACAGTCTTCCTGTGGAAGTTTAGTAAATGTCT  
TTTTCCCTCCTTTCTCTAGTAATGCAGTTCATGGGCTTTAGGTACTTCAGTTATGAAGTAGGCTTTTCATGGGG  
AGAGATTGGGATTATGCTCTCTGTTGTTAAGAACTGTTGATTTTAGAGTCTATTTCTATGAGATAGTTTACC  
AAATAAATGTTTCCTTATAAG

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FIGURE 3017

GCCCCGCGCCGCGCCGCTCTTTCTCCGACAGCTGCCGGGGGTGCCCTGCAAGCTGTTCCGCGCGTCCTGCCCGTCT  
GTCCCCGCGGGTTCGTGCGCCGCCACAGCCGCGCCATGACCACCCAGCAGATAGACCTCCAGGGCCCCGGGGCCGTG  
GGGCTTCCGCTCGTGGGCGCAAGGACTTCGAGCAGCCTCTCGCCATTTCCCGGGTCACTCCTGGAAGCAAGGC  
GGCTCTAGCTAATTTATGTATTGGAGATGTAATCACAGCCATTGATGGGGAAAATACTAGCAATATGACACACTT  
GGAAGCTCAGAACAGAATCAAAGGCTGCACAGACAACITGACTCTCACTGTAGCCAGATCTGAACATAAAGTCTG  
GTCTCCTCTGGTGACGGAGGAAGGGAAGCGTCATCCATACAAGATGAATTTAGCCTCTGAACCCCAGGAGGTCTT  
GCACATAGGAAGCGCCCAACCGAAGTGCCATGCCCTTTACCGCCTCGCCTGCCCTCCAGCACTACTGCCAGGGT  
CATCACAACCAGTACAACAACCCAGCTGGCCTCTACTCTTCTGAAAATATCTCCAACCTTCAACAATGCCCTGGA  
GTCAAAGACTGCTGCCAGCGGGGTGGAGGCGAACAGCAGACCCCTTAGACCATGCTCAGCCTCCAAGCAGCCTTGT  
CATCGACAAAGAATCTGAAGTTTACAAGATGCTTCAGGAGAAACAGGAGTTGAATGAGCCCCCGAAACAGTCCAC  
GTCTTTCTTGGTTTTGTCAGGAAATCCTGGAGTCTGAAGAAAAAGGGGATCCCAACAAGCCCTCAGGATTCAGAAG  
TGTTAAAGCTCCTGTCACTAAAGTGGCTGCGTCGATTGGAAATGCTCAGAAGTTGCCTATGTGTGACAAATGTGG  
CACTGGGATTGTGGTGTGTTTGTGAAGCTGCGGGACCGTCACCGCCACCCTGAGTGTATGTGTGCACTGACTG  
TGGCACCAACCTGAAACAGAAAGGGCCATTTCTTTGTGGAGGATCAAATCTACTGTGAGAAGCATGCCCGGGAGCG  
AGTCACACCACCTGAGGGTTATGAAGTGGTCACTGTGTTCCCCAAGTGAGCCAGCAGATCTGACCACTGTTCTCC  
AGCAGGCCTCTGCTGCAGCTTTTTCTCTCAGTGTCTGGCCCTCTCCTCTCTTGAAAGTTCTCTGCTTACTTTGG  
TTTTCCCTCTGCTTGTAACAACTTGAGTCCCTCCCTGCCTTGTTAATTGACTCACACCAGCTGTGCGATGCC  
GCTTTTACAATTAAAGGAAAACCTGTTTTGTTTCACTGTACCTTGTGAGCAACACTGTGTCCCTTCGCCCCACCGT  
TCTTCTCTGCTGCATTTGGACATCAGCCAAATTTGAACCAATCAAATATAACGTGTCTGACACTGATTTTGT  
TTACTCAATAAATGTATAGACTACAAAAA

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**FIGURE 3018**

MTIQQIDLQGPWPWFRLVGGKDFEQPLAISRVTPGSKAALANLCIGDVITAIDGENTSNMTHLEAQNRIKGCTD  
NLTLTVARSEHKVWSPLVTEEGKRHPYKMNLASEPQEVHIGSAHNRSAMPFTASPASSTARVITNQYNNPAGL  
YSSENISNFNNALESKTAASGVEANSRPLDHAQPPSSLVIDKESEVYKMLQEKQELNEPPKQSTSFLVLQEILES  
EEKGDPNKP SGFRSVKAPVTKVAASIGNAQKLPMCDKCGTGIVGVFVKLRDRHRHPECYVCTDCGTNLKQKGHFF  
VEDQIYCEKHARERVTPPEGYEVVTVFPK

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**FIGURE 3019**

ATGGAAGATTTCGATGGACATGGACGCCGACAAAGATGATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAG  
TTATCCTTAAGAACGCCAACAGTTCCCTTGGGGTCTTTGAAATAACACCACCAGTGCTTTTATGGTTGAAGTGT  
GGTTCAGGGCCAGTGCATATTAGTGGACAGCATTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAG  
GAGGAGGATGTGAACTCTTAAGGATATCTGGAAAATTAAAAGGACAAGAATCCTTCAAAAAACAGGAAAAAACT  
CGTAAACACCAAAAGGGCCTAGTTCTGTAGAAGACATTAAATCAAAAATGCAAGCAAGTATAGAAAAAGGTGGT  
TCTCTTCCCAATGGAGGAAGTCTCTTTAG

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FIGURE 3020A

ATTCTGGCTGTGACTCAGTCACTGACACTGAGCCTGAGGACGAGAAGGTTGTTTCTACTCGAAGCAGCAGAACC  
TGCCGACGGTGACTTCACCTGGGAACCTGATGGTGGTGCAGCCGACCGCATTCGCTGTGGGGCAGAAACCACTG  
TCTATGTTATTGTGAGATGTAAGCTGGATGACAGGGTGGCGACAGAAGCAGAGTTTTCTCCTGAGGATTCTCCCT  
CTGTAAGGATGGAAGCCAAGGTGGAGAATGAGTACACCATTTCAGTGAAGGCTCCCAACCTTTTCATCTGGGAACG  
TTTTCTCTGAAGATATATTCTGGAGACTTAGTGGTGTGTGAAACCGTTATCAGCTATTATACTGACATGGAAGAAA  
TTGGGAATTTATTGTCCAATGCCGCGAATCCTGTGGAATTCATGTGTGTCAGGCCTTTAAAATTGTGCCCTACAACA  
CAGAGACCCCTTGATAAACTGCTAACCGAATCCTGAAGAACAATATCCCTGCAAGCGGACTGCACCTCTTTGGAA  
TCAACCAGCTGGAAGAAGAAGATATGATGACAAATCAGAGGGATGAAGAGCTGCCCACCCTGTTGCATTTTGCTG  
CGAAGTATGGACTGAAGAACCTCACTGCCCTGTTGCTCACCTGCCAGGAGCCCTGCAGGCGTACAGCGTGGCCA  
ACAAGCATGGCCACTACCCCAACACCATCGCTGAGAAACACGGCTTCAGGGACCTGCGGCAGTTCATCGACGAGT  
ATGTGGAACCGGTGGACATGCTCAAGAGTCACATTAAAGAGGAAGTATGCACGGGGAGGAGGCTGATGCTGTGT  
ACGAGTCCATGGCCACCTTTCCACAGACCTGCTTATGAAATGCTCGCTCAACCCCGGCTGTGACGAGGATCTCT  
ATGAGTCCATGGCTGCCCTTTGTCCCAGCTGCCACTGAAGACCTCTATGTTGAAATGCTTCAGGCCAGTACATCTA  
ACCCAATCCCTGGAGATGGTTTCTCTCGGGCCACTAAGGACTCTATGATCCGCAAGTTTTTAGAAGGCAACAGCA  
TGGGAATGACCAATCTGGAGAGAGATCAGTGCCATCTTGGTCAGGAAGAAGATGTTTATCACACGGTGGATGACG  
ATGAGGCCCTTTTCTGTGGACCTGGCCAGCAGGCCCCCTGTCCCAGTGCCAGACCAGAGACCCTGCTCCTGGTG  
CTCACCAGCTGCCTGACAACGAACCATAACATTTTTAAAGTTTTTGCAAAAAAGTCAAGAGCGGCTGGGAATT  
TCTACGTTTCTCAGAGAGCATCAGGAAGGGCCGCCCGTCAGACCATGGAGGGACAGGCCCCAGTCGAGTATAT  
ATGACCCCTTTTGCGGGAATGAAAACGCCAGGCCAGCGGCAGCTTATCACCTCCAGGAGCAGGTGAAGCTGGGCA  
TTGTCAACGTGGATGAGGCTGTGCTCCACTTCAAAGAGTGGCAGCTCAACCAGAAGAAACGATCGGAGTCCTTT  
GTTTCCAGCAGGAAAATCTTAAACGGCTAAGAGACAGCATCACCCGAAGACAGAGAGAGAAGCAAAAATCAGGAA  
AGCAGACAGACTTGGAGATCACGGTCCCAATTCGGCACTCACAGCACCTGCCTGCAAAAGTGGAGTTTGGAGTCT  
ATGAGAGTGGCCCCAGGAAAAGTGTCAATCCCCCTAGGACGGAGCTGAGACGAGGAGACTGGAAAACAGACAGCA  
CCTCCAGCACAGCAAGTAGCACAAGTAACCGCTCCAGCACCCGGAGCCTCCTCAGTGTGAGCAGCGGGATGGAAG  
GGGACAACGAGGATAATGAAGTCCCTGAGGTTACCAGAAGTCGCAGTCCAGGCCCCCACAAGTGGATGGGACAC  
CCACCATGTCCCTCGAGAGACCCCCAGGGTGCTCCGAGAGCTGCCTCACAGAGGCCTCCGACCAGGGAGACCT  
TCCATCCTCCTCCACCTGTTCCACCCAGAGGACGCTGATTCCACCTCCTAAAACCTGCCTACTTCAGGACTTTAA  
GACTCACAGTCTTCAGCCTGTTAATGATGTCTTCATGTTGAGTTTTATAGCATGACTGTTGACCTTAAGATCCAT  
TCTCATTGCTGATAATGCTGCAGCCCTGCTGGTTTGGGCTTGCTCGAAGATTTTATTAAGGCACGAAGAAGTGA  
AAAATAAGGGCTTCATTACCATCACCAAGTATATCGAACCATATACCTGTTTGCCAAAAGGATGAAGACTTAA  
TCGAAATACTTACCTCTAATTTGCCATATCAGAAGCCTAAAAAGAATGATCATAAATGTACTTCACCAGTGATTT  
TACTGAAATGCATTATATTAGTCTTTATGTATTTGCTAGTTTCAGCCTGATTTCTAGAAGAGGTTATAGTGTGAG  
ACTTGTAGTATTCAAGTAAGATAAGTGACCTAATTTTAAATAATCTTCTACTTTTCTGTATATTACAGCAGGGT  
ATTTAAGTGCTAGGGCTGGTCACACACAACCAACTGAAAAAGACTAGAGGGATTAGTACAACTCCTCTTATACA  
GAAGGCAAATCTGAGGTTCCACAGAAGTCTGGAACCAAGACTATTCAAGTTGGTTAAATAAAGAGGTTAGTCTAGA  
CTGGGCCTGCTCATTCTAGGTACCCACATTTTCCATCTCCAAATAGCCAGGCCCTCTCTCCCTCAAGAAATGCCC  
AGATGTAGAAATTCATCAGTGCCTATTGGTCTTCCAGAATTTTCCATCTTCCGTATCTCCAGGCATGAGACTAC  
CAAGTTTGTGTTTCTTTCCAATTTGGGAATTTATACTTCAGTATGGTTTCAACGCAGTTATGTTTCCAGAGA  
ACATCTAGAAGTGGCTGGAAACCAGAAGCTGGGGATTCCAGGGACCCCACTTAGTGCTCTATTTCCTTTATAGGT  
TTTATTTCTGGTCATAGAGAGAGAAGGACCTTTGACTTTTCTTCTGTTGAGGCTTCTGAGGAGGAAAAACAAACC  
TAAATAGAAATACAGTCAGCCTTTCAAATCCATGGGTTCTGTGTCCGTGGATTCAACCAACCTTGGATCAAAAA  
TATTTGAAAAAATCTACAAAGTTTCAAAAAGCAAACTTGAATTTGCTGCATGCCAAGAAGTATGTTGAATTC  
ATGTAATGAAGTGATGTGTAGGCATTGTATTAGATATTATAAGAAATCTAGAAATGATTTAAAGCATAACAGGAG  
GATGTGCATAGGTTATATGCAAACTATGCTATTTTATATATGGGACTTGAGCATTGTGGATTTTGATACTGG  
GGGATCCTGGAACCAATCCCCATGGATACCAAGTACGACTGTAGTTATCTATTTTTTACATACTTATTATTAC  
CACCATGCTCAGTAAGTCCATTTTGCATGGAATATGGAGCCTTAAACATGTGCATGAATTTGGAGTCCCTGGCA  
CATAAATCTACCTCAAATCAGAGGTCCTTAATGATGCCTAAACATACAGTAAATTAGAATCAGAAATACCTCT  
TTAAAAAATATTCAAATGTGTTTGTTCCTATGCCACACGAATGTAAAAAATCCACAT

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**FIGURE 3020B**

TAATGATCCATTTAAGTATAGTTTTATTGGGTCCTTTTCTAATGATTAAAGGTTCTTTCTCAATTCATTCTCA  
GTCCTGCAAGTAAGGACTCATACTGAAGAGTACTGAAACAAGGACTTCTTGTCAGAAACAGCTTCTGGAATCTTG  
GGTTTTGTTTTGTTTTTGGACAAAATACACTATTGGCCATGTCCATCACGAGAGTGTTTGTAGTAATTAATTAC  
CTTGACAGGACCTGGCACTTAGTAGCATTCTTCAAATGTTCCCTCAGTGATCCTTTTACTCTCCTTGTCACCTA  
TTTGGGAGAAATAGGGGCACGTGAGATAAGAAGAAGAATAATTTTGATGTTGGTATGCTTGCCCTGTTACTTATA  
GACAGTCTTTGTCATAGGCAAACCTTGAATTTGATTAAATAGGGCTGGGAAAAATATTCAATAACTGTAAGCCC  
CCTTTTGGATGCCAAACCTTAGAATTTGTACATTCTCTGATGAACAAGCATTTAGATCGTAACATGGTAAAGCCT  
ATTACCAGCCAATGTTGTTAGCATCTTTGTATGCACATCACTGTTTGTGCAATATATGAATATTTTGTTCATTG  
TATTCTTATATAAAAATAAGTAGAAAACATAAAATTGAAATTGCTGATGAGAAGCCTTGTCTCGTGAATGTGATA  
CACTTGAGACACGGATGGAACCTGATCAGGAGTGCCAAGTCAAAAGCAGCAGATCTTAAGCCCTCACTGGTTGTTC  
CTTTAACATCCAAAATGGTTGGTTATATGTAAAGAAGAAAATGAAATAATCTGGATGAAACACTGGGACTGTGT  
TATCAAAGAATGTCTGTAGTGATGAGGTGAAAATTTTCATTTTCCAGAAACAGAACTGCTCATTATATAACATAAA  
TATATTCAACTCCACA

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**FIGURE 3021**

MVVQPDRIRCGAETTVYVIVRCKLDDRVATEAEFSPEDSPSVRMEAKVENEYTI SVKAPNLSSGNVSLKIYSGDL  
VVCETVISYYTDMEEIGNLLSNAANPVEFMCQAFKIVPYNTETLDKLLTESLKNNIPASGLHLFGINQLEEDMM  
TNQRDEELPTLLHFAAKYGLKNLTALLTCTPGALQAYSVANKHGHYPNTIAEKHGFRDLRQFIDEYVETVDMLKS  
HIKEELMHGEEADAVYESMAHLSTDLLMKCSLNPGEDELYESMAAFVPAATEDLYVEMLQASTSNPIPGDGFSR  
ATKDSMIRKFLEGNSMGMTNLERDQCHLGQEEDVYHTVDDDEAFSVDLASRPPVPVPRPETTAPGAHQLPDNEPY  
IFKVFAEKSQERPGNFYVSSESIRKGPPVRPWRDRPQSSIYDPFAGMKTPGQRQLITLQEQVKLGIVNVDEAVLH  
FKEWQLNQKKRSESFRFQQENLKRLRDSITRRQREKQKSGKQTDLEITVPIRHSQHLPKVEFGVYESGPRKSVI  
PPRTELRRGDWKTDSTSSTASSTSNRSSTRSLLSVSSGMEGDNEDNEVPEVTRSRSPGPPQVDGPTMSLERPPR  
VPPRAASQRPPPTRETFHPPPPVPPRGR



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**FIGURE 3022**

CGAAGATGGCGGAGGTGCAGGTCTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCCGCTGGCGGCCATCGTGG  
CTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTTGTACGCTGTGAAGGCATCAACATTTCTGGCAATTTCTACA  
GAAACAAGTTGAAGTACCTGGCTTTCTCCGCAAGCGGATGAACACCAACCCTTCCCGAGTCCCTACCACTTCC  
GGGCCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAGACCAAGCGAGGCCAGGCCGCTC  
TGGACCGTCTCAAGGTGTTTGACGGCATCCACCGCCCTACGACAAGAAAAAGCGGATGGTGGTTCTGCTGCCC  
TCAAGGTCGTGCGTCTGAAGCCTACAAGAAAGTTGCCTATCTGGGGCGCCTGGCTCACGAGGTGGCTGGAAGT  
ACCAGGCAGTGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGC  
TCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACACAGAGGTCCTCAAGACCC  
ACGGACTCCTGGTCTGAGCCCAATAAAGACTGTTAATTCCTAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAA

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**FIGURE 3023**

MAEVQVLVLDGRGHLLGRLAAIVAKQVLLGRKVVVCCEGINISGNFYRNKLNylaFLRKRmntSPSRGPYHFRA  
PSRVFWRTVRGMLPHKTKRGQAALDRKVSdGIPPPYDKKKRMVVPALKVVRLKPTRKFAYLGRLAHEVGWKYQ  
AVTATLEEKrKEKAKIHYRKKKQLMRLRKQAEKNVEKKIDKYTEVLKTHGLLV

GGGACACGAGGACGCTGGGGTTCTTGAGCGTGTTTCTACGTCCTCTGGAAGCCCGGTCATTAAAGCTCATTCTCCGCCACG  
GCTTAGTCAACATGGGTCGCTCGGGAAAGTTGCCCTCTGGTGTCTCAGCTAAGTTGAAGCGCTGGAAGAAAGGCC  
ACAGCAGCGACAGCAACCCGCCATCTGCCGCCACCGTCAGGCCGCCCGCAGCCGCTTCTCAGCCGGCCGTCTCAG  
GAAGGAGTGACCTGACAGTCGATGCTGTGAAGTTACATAATGAGCTGCAGTCAGGGTCTTTGCGCTTGGGCAAAA  
GCGAAGCCCCGGAGACGCCCCATGGAAGAAGAGGCGGAGCTGGTTCTACCGAGAAGTCTCGGGTACCTTCCTGA  
GTGGCCTTTCCGACTGCACAAACGTCACCTTCAGCAAAGTACAGCGCTTCTGGGAGTCCAACCTCGGCTGCCACA  
AGGAGATCTGTGCTGTTCTGGCTGCTGTCACTGAGGTGATTGCTCCAGGGAGGGAAGGAGACGGAGACTGAGT  
ACTTCGCTGCTCTGATGACAACAATGGAAGCAGTGGAGTCCCCGGAGTCCCTGGCCGCCGTTGCTTACCTGCTGA  
ACCTTGCTCTGAAGCGTGTTCCAGCCCTGTGCTTATTAAGAAGTTCTCTGATACCTCCAAAGCCTTCATGGATA  
TCATGTCTCAGCTCAGGCCAGCAGCGGCTCCACCTCTGTCTCCGATGGGTCTTCTGCTGCTGGCCACCCTTCTGC  
GGAAGCAAGACCTGGAGGCTGGGGCTACCCCGTGACCCTTCAGGTGTACCATGGGCTGCTGAGCTTCACGGTGC  
ATCCCAAGCCCAAGATCCGGAAGGCTGCCAGCATGGAGTATGCTCAGTCTCAAGGGCAGTGAATTCATGTTTG  
AAAAGGCCCTTGCCCATCATCTGCTGCCATTTCCACTGCCAAGTTCTGCATCCAGGAGATTGAGAAGTCTGGAG  
GCTCCAAGGAGGCCACCACCACGCTGCACATGCTGACGCTGCTGAAGGACCTGCTGCCCTGCTTCCCGAAGGCC  
TGGTGAAGAGCTGCAGTGAGACTCTCCTCAGGGTCATGACCTTGAGCCATGTGCTGGTGACAGCCTGTGCCATGC  
AGGCCTTTACAGCCTCTTCCACGCCAGGCTGCGCTGAGCACCTGTCTCAGCAGAGCTCAACGCCAGATCATCA  
CGGCCCTGTACGACTATGTTCCAGTGAGAAATGATTTACAACCCCTGCTAGCCTGGCTTAAGGTCATGGAGAAAG  
CCCACATCAACCTGGTGAGGTGTCAGTGGGACCTGGGGCTAGGCCACCTCCCTCGCTTTTTTGGAACTGCGGTGA  
CCTGCTCCTTTCCCACTGCAAGTGTGACTGCTGCTACGCAGAGCCTCAAGGAGATCCTGAAGGAATGCG  
TGGCTCCCCACATGGCTGACATTGGCTCCGTGACCTCCTCGCCTCAGGCCCTGCCCAATCTGTTGCCAAGATGT  
TCAGGGCAGTGGAGGAGGGCTGACGTACAAATTCATGCGCCTGGAGTCCGTGTTGCAGCTGCTGTGTGTCT  
TCTTCGAGGCGTGTGGGAGACAGGCCACCCTGTGATGAGGAAGTGCTTCCAGTCCCTGTGTGACCTGCGCCTCT  
CCCCTCATTTCCCCACACGGCCGCTCTTGACCAGGCAGTGGGGCTGCGGTGACCAGTATGGGACCTGAGGTGG  
TGCTGCAGGCTGTGCCTTTGGAAATTGATGGCTCTGAGGAGACTCTGGATTTCACACGAGCTGGCTGCTGCCCTG  
TCATCCGAGACCATGTTTCAGGAAACGCGACTTGGTTTTTACCACCTACTTCTTGCCCCCTGGCTAACACCCTGA  
AGAGCAAAGCCATGGACCTGGCTCAGGCAGGCAGCAGTGGAAATCTAAGATCTACGACACACTCCAGTGGCAGA  
TGTGGACACTCCTGCCTGGGTTCTGCACAAGGCCTACAGATGTGGCCATCTCCTTCAAAGGGCTGGCACGGACGC  
TGGGCATGGCCATCAGCGAGCGTCCAGACCTGAGGGTCACCGTGTGCCAGGCCCTGCGCACCCCTCATACCAAGG  
GCTGCCAGGCAGAGGCTGACCGTGCTGAAGTGAGTCGCTTTGCCAAGAAGTTCTGCCGATCCTCTTCAACCTGT  
ATGGGCAGCCCGTGGCAGCCGGGGACACTCCAGCCCTCGCCGGGCTGTGCTGGAAACCATCAGAACTTACCTCA  
CCATCACTGACACTCAGTTGGTGAACAGTCTCCTGGAAAAGCCAGTGAGAAGGTGCTCGACCCTGCCAGCTCTG  
ACTTTACCAGATTGTCTGTCTTGGACCTGGTTCGTGGCCTTGCTCCGTGTGCTGACGAAGCTGCCATCAGTAAGC  
TATACTCCACCATCCGGCCCTACCTAGAGAGCAAGGCCACAGGGGTGCAGAAGAAGGCCTACCGAGTGTGGAGG  
AGGTGTGTGCCAGTCTCAGGGCCCCGGGGCCCTCTTCGTGCAGAGCCACCTGGAGGACCTGAAGAAGACACTGC  
TGGACTCGCTGCGGAGCACCTCCTCACCCGCCAAGAGGCCCGTTTGAAGTGCCTCCTACACATCGTGAGGAAGC  
TCTCAGCTGAACACAAGGAGTTTCACTAGCCCTCATCCAGAGGTGATCTGTGCACCAAGGAGGTGTCCGTGG  
GCGCACGGAAGAAGCGCTTTTGCACTGCTCGTGGAGATGGGCCATGCTTTCTAAGGTTTGGCTCGAACCAGGAAG  
AGGCCCTGCAGTGCTACCTCGTCTGATCTACCCTGGCCTGGTGGGCGCGGTGACCATTGGTCAGCTGCAGCATCC  
TGGCCCTGACCACCTCCTTTTCGAGTTTAAAGGTCTGATGGGGACCACTACAGTGGAGCAGCTGCTGGAGAATG  
TGTGCTGCTTCTGGCCTCCCGCACCCGTGACGTGGTCAAGTCTGCACTGGGCTTCATCAAGGTGGCAGTGACTG  
TCATGGACCTGGCGCACCTGGCCAAACATGTGCAGCTGGTGATGGAAGCCATTGGGAAGCTTTCAGATGACATGC  
GGCGGCACTTCCGCGATGAAGCTTCGGAACCTGTTCAACAGTTCATCCGCAAGTTTGGATTGAGCTGGTGAAAA  
GCTGTGTCGGCAGGAGTACCACAGAGTCTTGGTCAACATCCGGAAGCTGAGGCCCGGGCCAAGAGGCACCGAG  
CCCTGAGCCAGGCTGCCGTGGAGGAGGAAGAAGAGGAGGAGGAGGAGGAGGAGGCCCGCCAGGGCAAAGGTGACA  
GCATTGAGGAGATTTAGCTGACTCAGAGGACGAGGAGGACAATGAGGAGGAGGAAAGAAGCCGAGGCAAGGAGC  
AGCGGAAGCTGGCACGACAGAGGAGCCGGGCATGGCTGAAAGAGGGCGGTGGGGACGAGCCCTCAACTTCCTGG  
ATCCCAAGGTGGCCCAACAGAGTCTTGCCACGCAGCCAGGGCCAGGCCGGGGCAGGAAGAAGGACCACAGCTTCA  
AGGTGAGCGCCGATGGCCGGCTGATCATAAGGGAGGAGGCAGACGGCAACAGATGGAGGAAGAGGAAGGTGCCA

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**FIGURE 3024B**

AAGGCGAAGATGAAGAGATGGCTGACCCAATGGAAGATGTGATCATCAGGAATAAAAAGCACCAGAAGCTCAAGC  
ACCAGAAAGAGGCTGAGGAGGAGGAGCTGGAGATACCCCTCAGTACCAAGCTGGAGGCTCTGGCATTTCATCGCC  
CTGTGGCCAAGAAGGCTATGCCTGGGGCTGAATACAAGGCCAAGAAAGCAAAGGTGATGTGAAGAAGAAAGGCC  
GGCCGGATCCCTATGCCTACATCCCCCTCAACAGAAGCAAGCTCAACCGCAGGAAGAAGATGAAGCTGCAGGGAC  
AGTTCAAAGGCCTGGTGAAGGCTGCCC GGCGAGGTTCCAGGTGGGACACAAA~~AA~~CCGCAGAAAGGATCGTCGAC  
CCTGAAGGCCCAGGGCCCCTGGGCTGCCCTGTGGTCCAGTCTGAGGCCCTTCAGCCCCAGGCTGCCTTGCCACC  
AGCTCCAGGTGCTCAAGATTCTGGCAGAGCCTGGACTCAGGATGACTTGGAAGTGGGCTTGCTCTCAGAAAGTC  
CTGGATTTTGAAACTCCAAATGGAATCACCCCTTCAGAGACATCCCTGGTGCCTGGAGATGGGAATGTGGCCTCA  
GTGCCTCTGAGTAGGTGCCATGAGGCACCTTTGCTTTCTGCCCAGAGTGGCCATGAGCACCAGAACAGATGATCT  
CCATTTCCGCCAGCTGCCTGTAGCCACGTGGCATCCTGCCTGTGGTCTGGGTGAGATTTACTGTGACCAGATGTA  
GAATAAATGTGTCTCATCCTGCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 3025**

MGRSGKLP SGVS AKLKRWKKGHSSDSNPAICRHRQAARSRRFFSRPSGRSDLTVD AVKLHNELQSGSLRLGKSEAP  
ETPMEEEAELVLTEKSSGTFLSGLSDCTNVTFSKVQRFWESNSAAHKEICAVLAAVTEVIRSQGGKETETEFYFAA  
LMTTMEAVESPESLAAVAYLLNLVLKRVSPVLIKKFSDTSKAFMDIMSAQASSGSTSVLRWVLSCLATLLRKQD  
LEAWGYPVTLQVYHGLLSFTVHPKPKIRKAAQHGVCSVLKGSEFMFEKAPAHHPAAISTAKFCIQEIEKSGGSKE  
ATTTLHMLTLLKDLLPCFPEGLVKSCSETLLRVMTLSHVLVTACAMQAFHSLFHARPGLSTLSAELNAQIITALY  
DYVPSENDLQPLLAWLKVMEKAHINLVRLQWDLGLGHLPRFFGTAVTCLLSPHSQVLTAAATQSLKEILKECVAPH  
MADIGSVTSSASGPAQSVAKMFRAVEEGLTYKFHAAWSSVLQLLCVFFEACGRQAHPVMRKCLQSLCDLRLSPHF  
PHTAALDQAVGAAVTSMGPEVVLQAVPLEIDGSEETLDFPRSWLLPVIRDHVQETRLGFFTTYFLPLANTLKS KA  
MDLAQAGSTVESKIYDTLQWQMTLLPGFCTRPTDVAISFKGLARTLGMAISERPDLRVTVQCALRTLITKGCQA  
EADRAEVS RFAKNFLPILFNLYGQPVAAGDTPAPRRVLETIRT YLTITDTQLVNSLLEKASEKVLDPASSDFTR  
LSVLDLVVALAPCADEAAISKLYSTIRPYLESKAHGVQKKAYRVLEEV CASPQGP GALFVQSHLEDLKKTL DLSL  
RSTSSPAKRPRLLKLLHIVRKL SAEHKEFITALIPEVILCTKEVSVGARKNAFALLVEMGHAF LRF GSNQEEALQ  
CYLVLIYPGLVGAVTMVSCSILALTHLLFEFKGLMGTSTVEQLLENVCLLLASRTRD VVKSALGFIKVAVTVM DV  
AHLAKHVQLVMEAIGKLSDDMR RHFRMKLRLNLF TKFIRKFGFELVKRLLPEEYHRVLVNI RKA EARA KRHRALSQ  
AAVEEEEEEEEEEP AQKGDSIEEILADSEDEEDNEEEERSRGKEQRKLARQSR AWLKEGGGDEPLN FLDPKV  
AQRVLATQPGPGRGRKKDHSFKVSADGR LIIREEADGNKMEEEEGAKGEDEEMADPMEDVIIRNKKHQKLKHQKE  
AEEEELEIPPQYQAGGSGIHRPVAKKAMP GA EYKAKKAKGDVKKKGRPD PYAYIPLNRSKLNRRKKMKLQGGFKG  
LVKAARRGSQVGHKNRRKDRRP

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**FIGURE 3026**

AAAGATTGGGCGAGAACTTGCGCGGGAGCCGGAAGTGGAGCGCGCAGGCGCGGCCGACGGGGCGGGC  
TGCTACTCCGGAATCTGCTAATCCCAGTCGGTGCCGCATCCCCAGCCCGCCGCCATGGCCGCCTACAACTGGTG  
CTGATCCGGCACGGCGAGAGCGCATGGAACCTGGAGAACCCTTCAGCGGCTGGTACGACGCCGACCTGAGCCCG  
GCGGGCCACGAGGAGGCGAAGCGCGGGCGGCGAGGCGCTACGAGATGCTGGCTATGAGTTTGACATCTGCTTCACC  
TCAGTGCAGAAGAGAGCGATCCGGACCCTCTGGACAGTGCTAGATGCCATTGATCAGATGTGGCTGCCAGTGGTG  
AGGACTTGCGCCTCAATGAGCGGCACTATGGGGTCTAACCCTCTCAATAAAGCAGAACTGTGCAAAGCAT  
GGTGAGGCCAGGTGAAGATCTGGAGGCGCTCCTATGATGTCCACCACCTCCGATGGAGCCCGACCATCTTTC  
TACAGCAACATCAGTAAGGATCGCAGGTATGCAGACCTCAGAGAAGATCAGCTACCCTCCTGTGAGAGTCTGAAG  
GATACTATTGCCAGAGCTCTGCCCTTCTGGAATGAAGAAATAGTTCCCCAGATCAAGGAGGGGAAACGTGTACTG  
ATTGCAGCCCATGGCAACAGCCTCCGGGGCATTGTCAAGCATCTGGAGGGTCTCTCTGAAGAGGCTATCATGGAG  
CTGAACCTGCCGACTGGTATTCCCATTTGTCTATGAATTGGACAAGAACTGAAGCCTATCAAGCCCATGCAGTTT  
CTGGGGGATGAAGAGACGGTGCAGCAAAGCCATGGAAGCTGTGGCTGCCAGGGCAAGGCCAAGAAGTGAAGGCCG  
GCGGGGAGGATACTGTCCCCAGGAGCACCTCCCTGCCCGTCTGTCCCTCTGCCCTCCACCTGCACATGTCA  
CACTGACCACATCTGTAGACATCTTGAGTTGTAGCTGCAGACGGGGACAGTGGCTCCCATTTTCATTTTAGCCA  
TTTTGTCGCCTGCACCCACTCCCTTCATACAATCTAGTCAGAATAGCAGTTCTAGAGCACAGGTTCTCAGTCTAA  
GCTATGGAAGCTCCCTTATCCAACAGAGTTTAAAGTAGTGACTTGGGTTTTTGCAGTGCTTTGTTTACTA  
AGGACTTTGGGAGGAACCATGCTAAGCCATGACCAGTGAGGAGAAGCAACAGAGCCTGTCTGTCCCATGAGCG  
GAGTCTGTCTCTGCTCTTCTGCAGTCAGGTCACGCTACTGCCCTGGGGGCTCTAGTCATTCCAGTGAAGACG  
AATGTAACCTGCGTGGTGATGTGACAACCTGTTTCTCCCTGACCCAGAGGATCTGGCTCTAGGTTGGGATCAAT  
CCTGAATTCGTTATGTGTTAATTTACTTTTATTAAGAAAGTATAGTATATATAATAACAAACAATAACCTTCT  
GGGGTTTTCTGTGGCGGTTGAAATAGTCCACATGTGGTCATCAGAAAATAAGCCATTCTCATACCAATATAGG  
ATCAGCTCCTTGACCTCTGAGGGGCGAGAGTGCTTCTGGTGTGTGATTAGAATCCCTTCTGCCTTGTTCAT  
GGCAGTGAAATGCCTCTTGGTCTGTCCAAGTGATCTTTCAGTATTTCTGAATCATGTTCTAGTTGCTTGACC  
CTGCCACATGGGTCCAGTGTTTCATCTGAGCATAACTGTACTAAATCCTTTTTCCATATCAGTATAATAAAGGAGT  
GATGTGCAAT

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**FIGURE 3027**

MAAYKLVLI RHGESAWNLENRFSGWYDADLSPAGHEEAKRGGQALRDAGYEFDICFTSVQKRAIRTLWTVLDAID  
QMWL PVVRTWRLNERHYGGLTGLNKAETA AKHG EAQVKI WRRSYDVPPPMEPDHPFYSNISKDRRYADLTEDQL  
PSCESLKDTIARALPFWNEEIVPQIKEGKRVLIAAHGNSLRGIVKHLEGLSEEAIMELNLPTGIPIVYELDKNLK  
PIKPMQFLGDEETVRKAMEAVAAQGKAKK

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**FIGURE 3028**

GGTTGAGGATGGGCTGGCGGCGGGTCCGGGTCCGCTGCCTGGCGGTGCGGGCGGCGGGCCATGGTGGTTTGGATT  
GAGCCGGGCCCCGGCCGGGGCGCCGAGTCGGAGGGGGTGGCAGTGAGCGGCGGCAGAGGCTACGGGGCTCGGTTTG  
GCTGACTGGGGAGTCGGCAGGCGGCAGGAACCATGCGAGGCCAGCGGAGCCTGCTGCTGGGCCCCGGCCCGCTCT  
GCCTCCGCTCCTTCTGCTGCTGGGTTACAGGCGCCGCTGTCCACCTCTACTCCGGGGTCTAGTACAGCGCTGGC  
GCTACGCAAGGTCTGCCTGCGCTCCCTGCTCTACAACCTCCTTTGGGGGCAGTGACACCGCTGTTGATGCTGCCT  
TTGAGCCTGTCTACTGGCTGGTAGACAACGTGATCCGCTGGTTTGGAGTGGTGTTCGTGGTCCCTGGTGATCGTGC  
TGACAGGCTCCATTGTAGCTATCGCTACCTGTGTGTCTGCTCTCATCCTCCGAACCTACTCAGTGCCACGAC  
TCTGCTGGCATTTCCTTCTATAGCCACTGGAATCTGATCCTGATTGTCTTCCACTACTACCAGGCCATCACCCTC  
CGCTGGGTACCCACCCAGGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCATTACCCCAAGC  
CAGCCCCAACACACCACTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGATCACCCTGCCCTGGCTAAACA  
ATTGTGTGGGCCACTATAACCATCGGTACTTCTTCTCTTTCTGCTTTTTCATGACTCTGGGCTGTGTCTACTGCA  
GCTATGGAAGTTGGGACCTTTTCCGGGAGGCTTATGCTGCCATTGAGAAAATGAAACAGCTCGACAAGAACAAC  
TACAGGCGGTTGCCAACCAGACTTATCACCAGACCCACCACCCACCTTCTCCTTTCGAGAAAGGATGACTCACA  
AGAGTCTTGTCTACCTCTGGTTCCTGTGCAGTTCTGTGGCACTTGCCTGGGTGCCCTAACTGTATGGCATGCTG  
TTCTCATCAGTCGAGGTGAGACTAGCATCGAAAGGCACATCAACAAGAAGGAGAGACGTCCGGCTACAGGCCAAGG  
GCAGAGTATTTAGGAATCCTTACAACCTACGGCTGCTTGGACAACCTGGAAGGTATTCTGGGTGTGGATACAGGAA  
GGCACTGGCTTACTCGGGTGTCTTACCTTCTAGTCACTTGCCCCATGGGAATGGAATGAGCTGGGAGCCCCCTC  
CCTGGGTGACTGCTCACTCAGCCTCTGTGATGGCAGTGTGAGCTGGACTGTGTGAGCCACGACTCGAGCACTCAT  
TCTGCTCCCTATGTTATTTCAAGGGCCTCCAAGGGCAGCTTTTCTCAGAATCCTTGATCAAAAAGAGCCAGTGGG  
CCTGCCTTAGGGTACCATGCAGGACAATTCAAGGACCAGCCTTTTTACCACTGCAGAAGAAAGACACAATGTGGA  
GAAATCTTAGGACTGACATCCCTTTACTCAGGCAACAGAAGTTCCAACCCAGACTAGGGGTGAGGCAGCTAGC  
TACCTACCTTGCCAGTGCTGACCCGGACCTCCTCCAGGATACAGCACTGGAGTTGGCCACCACCTCTTCTACTT  
GCTGTCTGAAAAAACACCTGACTAGTACAGCTGAGATCTTGGCTTCTCAACAGGGCAAGATAACCAGGCCTGCTG  
CTGAGGTCACTGCCACTTCTCACATGCTGCTTAAGGGAGCACAAATAAAGGTATTGATTTTTAAAGAT



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**FIGURE 3029**

TCGCGTTATGCGCCGCTGCCGCGCTGTGGAGGGCGGCCGCTATGGTGCCCTATGGGGCCTCGTGACACGACTT  
CGCTGTGGGTACAGCAAGAGGGCCCGCTGACCAGGTGGCTGCAGATGTGAAATCTGGCAACTATACAGTGTTACA  
AGTTGTGGGAAGCCCTTGGGTCTCTCTAGAGAATCCAGAACCCGAACTCGGGCACGAGGAATCCAGCTTTTGT  
ACAGGTGCTACTCCACTGTACACCTTGCTCCTGGAGAAGGAAGTGGTACACCTGATACTGTTCTATGAGAACC  
GCTGAAGGACCATCATCTTGTGATCCCATCTGTCTGCAGGGTTTGAAGGCACCTTAGCCTGTGTGTGGCCCTGCC  
CCCAGGGCTGGCTGTTTCTGTGCTTAAAGCCATCTTCCAGGAAGTGCATGTACAGTCCCTGCCACAGGTGGACCG  
ACACACAGTCTACAATATCATACCAATTTTATGCGAACCCGGGAAGAAGAGCTAAAGAGCCTAGGAGCTGACTT  
CACCTTTGGCTTCATCCAGGTGATGGATGGGGAAGGATCCCCGTAATCTTCTGGTGGCCTTCCGCATCGTCCA  
TGACCTCATCTCCAGGACTATAGCTGGGACCCCTTGTGGAGGAGTTGTTTGAAGTGACATCCTGTTATTTCCC  
TATCGATTTTACCCTCCACCTAATGATCCCCATGGTATCCAGAGAGAAGACCTCATCCTGAGTCTTCGCGCTGT  
GCTGGCTTCTACACCACGATTTGTCTGAGTTTCTGCTGCCCTGTTGATTGAGAAAGTGGATTCTGAGGTTCTGAG  
TGCCAAGTTGGATTCTCTACAGACTCTGAATGCTTGTCTGTGCTGTGTATGGACAGAAGGAACTGAAGGACTTCT  
CCCCAGCCTTTGGCTTCTATCCGCAGAGAGGTGTTCCAGACGGCAAGTGAGCGGGTGGAGGCAGAGGGCCTGGC  
GGCCTCCACTCCCTGACTGCGTGTTTGTCTCGCTCTGTGCTGAGGGCTGATGCTGAGGACCTCCTTGACTCCTT  
CCTTAGCAACATTTACAGGACTGCAGGCACCACCTGTGTGAACCGGACATGAAACTGGTGTGGCCTAGTGAAG  
CTGTTGCAGGCAGCTGCAGGTGCATCTGCCCGGGCCTGTGACTCTGTACCAGCAATGTAAGTGCCTTTACTGCTG  
GAACAGTTCCACAAGCACAGTCAGAGCAGCCAGCGCGGGACAATCCTTGAAATGCTCCTGGGTTTCTTGAAGCT  
GACAGAGAATGGAGCTATGAAGACAAAGATCAAAGGCTCTGAATGGCTTCAAGGACCAGCTGTGCTCACTGGT  
ATTCATGGCTCTAACAGACCCAGCACCCAGCTTCAGCTTGTGGCATCCGTACACTGACAGTCTTGGGTGCCCCA  
GCCAGATCTCCTATCTTATGAGGACTTGGAGCTGGCAGTGGGTACCTGTACAGACTGAGCTTCTGAAGGAGGA  
TTCCCAGAGTTGCAGGGTGGCAGCACTGGAAGCATCAGGAACCCCTGGCTGCTCTCTACCCTGTGGCCTTCAGCAG  
CCACCTCGTACCCAAGCTCGCTGAGGAGCTGCGTGTAGGGGAGTCAAATTTGACTAACGGAGATGAGCCACCCA  
ATGCTCCCGGCATCTGTGCTGTCTGCAAGCCTTGTGAGCTGTATCAACACATCCAGCATCGTCAAGGAGACACT  
GCCTCTGCTGCTGCAGCATCTCTGGCAAGTGAACAGAGGGAATATGGTTGCACAATCCAGTGACGTTATTGCTGT  
CTGTGAGAGCCTCAGACAGATGGCAGAAAAATGTGAGCAGGACCCTGAGAGTTGCTGGTATTTCCACCAGACAGC  
TATACCTTGCCTGCTTGCTTGGCTGTGCAGGCCTCTATGCCAGAGAAGGAGCCCTCAGTTCTGAGAAAAGTACT  
ATTGGAGGATGAGGTGTTGGCTGCCATGGTGTCTGTCTATTGGCACTGCTACAACCCACCTGAGCCCTGAGTTAGC  
TGCCCAGAGTGTGACACACATTGTGCCCTCTTCTTGGATGGCAACGTGTCTTTCTGCTGAAAACAGCTTCCC  
GAGCAGATTCCAGCCATTCCAGGATGGCTCCTCAGGGCAGAGGCGGCTGATTGCACTGCTTATGGCCTTTGTCTG  
CTCCCTGCCTCGAAATGTGAAATCCCTCAGCTGAACCAACTCATGCGGGAGCTTTTGAAGTGAAGTGTGCTGCCA  
CAGCTGCCCTTTTCTTCCACCGCTGCTGCCAAGTGCTTTGCAGGACTCCTCAACAAGCACCTTCAGGGCAGCA  
GCTGGATGAATTCTACAGCTAGCTGTGGACAAAGTGGAGGCTGGCCTGGGCTCTGGGCCCTGTCTAGTACAGG  
CTTCACTCTTCTTCTGCGGTAAACAAAGGCCCTAGTGCTCAGATACCATCCTCTCAGCTCCTGCCTTACAGCCG  
GCTCATGGGCTCCTGAGTGACCCAGAAATTAGGTCCAGCAGCAGCTGATGGCTTCTCTGCTCATGTCTGACTG  
CACTGATGTGCTGACTCGTGTGCGCATGTGAAGTGGGATCATGTTCCGCCAGCGGTTCTTACAGATAATGT  
GCCTGCTTTGGTCCAGGGCTTCCATGCTGCTCCCCAAGATGTGAAGCCAACTACTTGAAGGGTCTTCTCATGT  
ACTTAACAGGCTGCCAAAGCCTGTACTCTTGCAGAGCTGCCACGCTTCTTCCCTGTGCTGGAGGCCCTGTC  
CTGCCCTGACTGTGTGGTGCAGCTCTCCACCTCAGCTGCCTTCAAGCTCTTCTACTGGAAGCACCCCAAGTCAT  
GAGTCTTACAGTGGACACCCTCGTCACCAAGTTTCTGAACCTCAGCTCTAGCCCTTCCATGGCTGTCCGGATCGC  
CGCACTGCAGTGCATGCATGCTCTCACTCGCTGCCACCCCTGTGCTGCTGCCGTACAAACCACAGGTGATTG  
GGCCTTAGCCAAACCCCTGGATGACAAGAAGAGACTGGTGGCAAGGAAGCAGTGTGAGCCAGAGGGGAGTGGTT  
TCTGTTGGGGAGCCCTGGCAGCTGAGCCCTCAGTCTGGCCTAGACTGTTCTGACAATCTAACCTGGGATTACTA  
ACTGTTGAGCCATCTTCCCCAAAGCAGGGAACCACTGGTCTCTGACTGCCTTTCCACAGACACAGCACAAATG  
CTAGGCCCTCTGTTGCATGGCTGTACAAAGAACATAAGAGTCCATATTTCTAGTGGATTGTAAATAAGTGTGTG  
TGAGACACTTGCGTTTGAAGAAAGATCTAGGGTCTGGGTCTCTTGCAATTTATATGTCAGAAAAGGGGCGATATG  
CTGCTGAGGGGTGAGTGCATATGAGTGTGGCCTGAGGACCAGGGCTGGCAGATGTTGTCTACCTGCTGAG

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**FIGURE 3030**

MAAAAVEAAAPMGALWGLVHDFVVGQQEGPADQVAADVKSNGYTVLQVVEALGSSLENPEPRTRARGIQLLSQV  
LLHCHTLLLEKEVVHLILFYENRLKDHHLVIPSVLQGLKALSICVALPPGLAVSVLKAIFQEVHVQSLPQVDRHT  
VYNIITNFMRTREEELKSLGADFTFGFIQVMDGEKDPNLLVAFRIVHDLISRDSLGPFFVEELFEVTSCYFPID  
FTPPPNDPHGIQREDLILSLRAVLASTPRFAEFLPLLLIEKVDSEVLSAKLDSLQTLNACCAVYGQKELKDFLPS  
LWASIRREVFQTASERVEAEGLAALHSLTACLSRSVLRADAEDLLDSFSLNQLQDCRHHLCPEPDMKLVWPSASCC  
RQLQVHLPGPVTLSPAMYCLYCWNSSSTSTVRAASGGTILEMLLGFLKLQKWSYEDKDQRPLNGFKDQLCSLVFM  
ALTD PSTQLQLVGIRTITVLGAQPDLLSYEDLELAVGHLYRLSFLKEDSQSCRVAALEASGTLAALYPVAFSSHL  
VPKLAEEELRVGESNL TNGDEPTQCSRHLCCQLASAVSTHPSIVKETLPLLLQHLWQVNRGNMVAQSSDVIACQ  
SLRQMAEKCCQDPESCWFHQTAIPCLLALAVQASMPEKEPSVLKVLLEDEVLAAMVSVIGTATTHLSPELAAQ  
SVTHIVPLFLDGNVSFLPENSFPSRFQPFQDGSSGQRRLLALLMAFVCSLPRNVEIPQLNQLMRELLELSCCHSC  
PFSSTAACKCFAGLLNKHPAGQQLDEFLQLAVDKVEAGLGSGPCRSQAFTLLLVTKALVLRYPHPLSSCLTARLM  
GLLSDPELGPAADGFSLLMSDCTDVLTRAGHAEVRI MFRQFFTDNVPALVQGFHAAPQDVKNYLKGLSHVLN  
RLPKPVLLPELPTLLSLLLEALSCPDCVVQLSTLSCLQPLLEAPQVMSLHVDTLVTKFLNLSSSP SMAVRIAAL  
QCMHALTRLPTPVLLPYKPQVIRALAKPLDDKKRLVRKEAVSARGEWFLLGSPGS

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**FIGURE 3031**

CGCTGCTTAGGCTCCGCGGCCTCCAAGCTGTAGCTATGACGGCGCGGGACTCCGAGCCGCTTCTTGCCAGCG  
TTCTCCACAACGGACTGGGTCGCTATGTGCAGCAGCTGCAGCGTCTGAGCTTCAGCGTCAGCCGCGACGGCGCCT  
CGTCTCGCGGCGCCAGGGAGTTCGTGGAGCGGGAGGTGATCGACTTCGCCCAGCGGAATCCAGGGGTCTGTAATAT  
ATGTAAACTCGCGTCCGTGCTGCGTGCCAGAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGAGCA  
TCCACTGCAAGTCGGTCGAGGAGATCTCGACGCTGGTGCAGAACTGGCCGACCAGTCGGGCTTGACGTGATCC  
GCATCCGCAAGCCCTTCCACACCGACAACCCTAGCATCCAGGGCCAGTGGACCCCTTCACCAACAAGCCGACCAC  
GTTCCGCGGGCTACGCCCCGAGAGGTTTCAAGATCCTGCCCCAGCCCAGGTGCAAGCACAGTGAAGAGTTGCCCC  
ACCAACTGCAGCCCCAGGCTTTGGACTGTTACTCCGGTAAAGGTGGTTCTTCCCCTTTGGGATTCCAAGCCCAGG  
CAAATGGAACCCATCAATGGGCAAGTTGACAGAGGTTCTGCTTGGGATAATGAAGAGCTGCCTGTTTCTTTCCAG  
TGCTGCTTCTGGGGGAGTGACCTTGTAACCACTCATTATTTATGCAAGTGGCATCCCTAAAACCTGAGATGAG  
GAAGACTTCAAGGGTTTTACAGGGCCCTTGTTTTTAAATCCAAATTGATAATAATGATCTCAAAACACAGTGAG  
AGGTCTGAAGGCTGGCTTCTGAAGAATCCCTGATGTCTTATTGGAACAACCACTGAGCTACGGAGAGCTCTGCTG  
TGATGGGCTAGGCACCTTATATCTGTGTGAATACAGATTTATAAAACAGGTTAATAAACTTATCCAAGGTCA

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**FIGURE 3032**

MTARGTPSRFLASVLHNLGRYVQQLQRLSFSVSRDGASSRGAREFVEREVIDFARRNPGVVIYVNSRPCCVPRV  
VAEYLNQAVREESIHCKSVEEISTLVQKLADQSGLDVIRIRKPFHIDNPSIQGQWTPSPTSRPRSAGYAPERFRI  
LPQPRCKHSEELPHQLQPQALDCYSGKGGSSPLGFQAQANGTHQWAS

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**FIGURE 3033**

CTGATCAGGAGGAGGTTTCAGCTGGCTGATACAATGTTTGGCCTTACCAAGGTTACAGATGACACACTCAAGCGTT  
TCAGTGTGCGATATCTGCGACCTGCTCGCAGTCTTGCTTCCCTTGGTTCTCCCTGGGGGTTTCAGGATTACGAG  
GCCTGAAGCTCCTAGAGGCTAAATGCCAGGGGATGGAGTGAGCTACGAGGAAACCACTATTCCTCCGACCCAGCG  
CCTACCACAATCTGTTTGGATTACCACTGATTAGTCGTCGAGATGCTGAGGTGGTACTGACGAGTCGTGAGCTTG  
ACAGCCTGGCCTTGAACCACTCCACGGGGCTGCCTACCTTACTCTACCCCGAGGAACGACCTGCTTACCCCTG  
CCTTACTCCCTTACCTGGAACAGTTCCGGCGGATTGTATTCTGGTTGGGGGATGACCTTCGGTCCTGGGAAGCCG  
CCAAGTTGTTTGCACGAAAACCTGAACCCCAAACGATGCTTCTTGGTGCAGACCAGGAGACCAGCAACCCCGTCCCC  
TGGAGGCCCTGAACGGAGGCTTCAATCTTCTCGTATTCTTCGTACCGCCCTGCCTGCCTGGCACAAGTCCATCG  
TATCTTCCGGCAGCTTCGGGAGGAGGTGCTAGGAGAACTGTGCAATGTGGAGCAAGCAGCTGGCCTCCGCTGGA  
GCCGCTTTCAGACCTCAATCGTATCTTGAAGGGACATCGAAAGGGCGAGCTGACGGTCTTCACAGGGCCAAACAG  
GCAGTGGAAAGACGACATTCATCAGTGAATATGCCCTGGATTTGTGTTCCAGGGGGTGAACACACTGTGGGGTA  
GCTTCGAGATCAGCAATGTGAGACTAGCCCGGGTCATGCTGACACAGTTTGCCGAGGGGGCGGCTGGAAGATCAAC  
TGGACAAATATGATCACTGGGCTGACCGCTTTGAGGACCTGCCCCCTCTATTTCATGACTTTCATGGACAGCAAA  
GCATCAGGACTGTAATAGATACAATGCAACATGCAGTCTACGTCTATGACATTTGTATGTATCATCGACAACC  
TGCAGTTCATGATGGGTACGAGCAGCTGTCCACAGACAGGATCGCAGCTCAAGACTACATCATCGGGGTCTTTC  
GGAAGTTTGAACAGACAATAACTGCCATGTGACACTGGTCATTACCCCCGGAAGAGGATGATGACAAGGAAC  
TGCAGACAGCGTCCATTTTGGCTCAGCCAAAGCAAGCCAGGAAGCAGACAATGTTCTGATCCTGCAGGACAGGA  
AGCTGGTAACCGGGCCAGGGAACGGTATCTGCAGGTGTCCAAGAACCGCTTTGATGGAGATGTAGGTGTCTTCC  
CGCTTGAGTTCAACAAGAACTCCCTCACCTTCTCCATTCCACCAAAGAACAAGGCCCGGCTCAAGAAGATCAAGG  
ATGACACTGGACCAGTGGCCAAAAGCCCTCTTCTGGCAAAAAGGGGGCTACGACACAGAACTCTGAGATTTGCT  
CAGGCCAGGCCCCCACTCCCGACCAGCCAGACACCTCCAAGCGTTCAAAGTGAAGGCCGTGCAGAGCTGGTCACT  
GAAATGAGCCTGATAGGATAGGCTGGAGCATAAAACCTCTGCAAGGGCTCCTCTATCCTGTGGTCCTGAGCTGTGT  
GCCCTTCTCAGTCTGAGGGGCCAACCCTAGAGCAGGTTTCCATAGTGAGAAAATTCAATGTAGCAGACTACTGAG  
AACTACTGTGTTGCTCAGGCTTTGTTTGGGTCCTGTATATACAGCACTGAAAAGAGAGATAAAGTCCCTGCCT  
GCATGCATTCTGGCGGAAGAGACAAGCAAGCAATGAACAAATTAGCAGAAAACCTAGTTTTAGTGAAAAATGCTG  
TAAAGAAAATAGAAATGCGATAGAGTGCTGGCAGGCTAGTGATAGATAAGTGGTCTGAAAAGGTGTCTCTGAGCCG  
AGGGCATGTGAGCTGGGGCCTAAACAACCTAGAAGGAGAGGCCACGTGAACATCCGGCGAAGGGGACCCAGGCAG  
AGAGAAAAGGAAATCCAAGCCCTGAGGTAGGAATGAGCAGGTGAGATTCAAGGCAGTGAGGTGAGGCCGATGAA  
CCTGGAGGGGAATCGGGGACTTCATGCGAAACTCCAGCCTAGGCTTTCAAAGTCAAAGGGTGATACAGTGGGTAC  
CAAGCTCCTCTGCTCCCCACTTTGTAGAGCCTAGCATGAGGTGGCATGTACTAGAATTGGATCCTAGGTGCTTAG  
CCCTGCAATATCAGGGCCTCACTGGTGGGAGCTGCCTCGGGCTGGGTTGCTTGGTCATAGAGCCATAGAAGGAAG  
CTGTGACCCCGGAGTGCCTGCCACCTAGACACTGATGCCATTGTGTGCTGCCTCAAGACTGCTGGAGTCAGGACA  
TTTTATAGAGCCTTTTCCAGTTTTACTAAAAAATTTTTCCATTGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 3034**

MFGLTKVIDDTLKRFSVRYLRPARSLVFPWFSPGGSGLRGLKLEAKCQGDGVSYEETTIPRPSAYHNLFGPLI  
SRRDAEVVLTSLREDSLALNQSTGLPTLTLPRTTCLPPALLPYLEQFRRIVFWLGDDLRSWEAAKLFARKLNPK  
RCFLVRPGDQQPRPLEALNGGFNLSRILRTALPAWHKSIVSFRQLREEVLGELSNVEQAAGLRWSRFPDLNRILK  
GHRKGELTVFTGPTGSGKTTFISEYALDLCSQGVNTLWGSFEISNVRLARVMLTQFAEGRLEDQLDKYDHWADRF  
EDLPLYFMTFHGQQSIRTVIDTMQHAVYVYDICHVIIDNLQFMMGHEQLSTDRIAAQDYIIGVFRKFATDNNCHV  
TLVIHPRKEDDDKELQTASIFGSAKASQEADNVLILQDRKLVTPGPKRYLQVSKNRFQDVGVPFLEFNKNSLTF  
SIPPKNKARLKKIKDDTGPVAKKPSSGKKGATTQNSEICSGQAPTPDQPDTSKRSK

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**FIGURE 3035A**

GCGGCCGCCGCCGCCGTGGCCCTTTGTGCTGGAACAATGACCAGCTGCCGCTGGCCCCGGGGCCCCGGCTGGG  
GTTGAGGGTGACCACCGCCGCCGCCGCTCGAGCCGAACCGAGCCCCAGACACGCAGTCACAGGGCGTCGGAGG  
GAGGGCTCCCGACTGCCGCCGAGCAGCCCCTACGTGCGCCCCGGCGGATTGCGGTGACGCGGGTGCTTGCGCGTG  
TCCGCGCCCCGGGGCGGAGACGCCCCCTCGGACCCTCCCCTGCGCGGTGCCGCCACTCGCACCGGGCGGGGGCTG  
GCCAGGGCCGGGGCGCGCGGAGGCGGAGGCGGGGCTGGGCCGGGCAGCTCCGAGTGCGCGCGCGCGGGCCAGG  
GCCGGGGCCGGGGCGGGGCCGGAGCCGGAGCCGGGCGGGGCCGGCGCGCCTGTGGAGCGCTGGGGCGGCCTGG  
GGCTGAGCATGGAGCAGCGCGCGGAGGTGAGGGGGGCCGGGTCTGGGAGGCGGCCTGGGGAGCCCCAACTTAT  
GCGCGGTGGAATCCAGCCGGGGGACGGCGTTCCCCAGTCGCCCCACTTTCTGGAAGGGGGCTGGACTCTGGA  
GAATGGGTCAGGGGCTCCTGGCTTCCCGCCGAGAATGGGAATCGTGATCGCAGACTTGACCCGCTTGACTGG  
TCCTTGAGTTTGGGTGGGAGGAGACTTTCCCAACTCTTCAGATCCGTCTCCGGCCCTGAACCAGCTCCAGCC  
CTCTGCTCTCCTCAGCCCACTAAAAGGGGGTGCTCCTGGGCCAGAGTGATTGCTCAGGGAGTGCTGGGGAGAAT  
GAGGGGTTCCCATCTCCACAGCCACAACGCATTTCTCAAAATGGAGCCTCCACTTGCCCTCCTTCTCTTTTCG  
GGCTCCAAGAGCGGGAGCCGCGCTGGCTGGGCCTGGCTTTCCAGACTCCTGGCTCTGGCTCCCTGGATGTGTGGC  
TCTCAGGGCCCGGCTCTGTGGCACTTTGGACTTATGGGCCCTCGGCTCCGTGGGGTGGGGGGCCCTGGCTCACT  
GGGTCCCGCTGGCTGTCCCTTGTGCGCCTGACCCTCGGGCCTCTCCGAGTCTTTGTCTCTTTGGGTCCCTGTC  
TTTCTCTGAGCCTGTCTCCTTCAATTTCACTTTCTCCGTGCTCGCTGAAGTGGGGAATGCAACAGAGGT  
GCCAGCCCCCTTGGCCCCCTAAGAAGTCCCTTCCCCACTGTTCACTCCACACCCTGGAGTGGGCCAGAGAGGGG  
AGGGGAGGGGTTCTCTATCTGCTCTGCTGGGGGCTGGGGTGTGTGGGTGGTCTGAGCCCCAGCCCTACAGAGG  
GGCCTGTGGTCACTCCCTGCTCCTGGCCTACCCCTCCCCAGCTCCCCGAGCTCCTGCCCCAGCGTGGACACCT  
CTTCTGGTTGCGAGTGTCTTTGACTTGGGTGGGAAGGAGGGCGGTGGATTAAATGGAGGGCATGCGAGAAAGA  
AGGGGAACAGATCAGGCAAGGAGTTAGATAATGTCCCACCTCTCCCCACACGCCGAAGAGAGAAGGAAACAGGC  
TCCCCCACCATGGGCCCTCAAGCCACCCAGGCTCCACCACTCTCATACCTGCGTGCCACGTTACAGGCTC  
CACTGCACCACTCACCTTCTAGTCACACACAACACAGGAGCTCACACATAAACTCATGAACCTACTGACAAGT  
CTGTCCAGGCACCGTCTCTCCACACACCACAATTCACCTGTTAGATCCACATTTATAACTTTCACAGGCTTTC  
TAAAGACCCCTGATCCACATACTCTTCTAAGATATACACATGTGAATTCACACATGAACCTCATATGTATGTGAAT  
GAACCTGATATATCAACATGCATAGACTCAGATGATGTTTTACACACATTTTCATACACACGTTTCATTTTCA  
TGCTCCTGTGCATGTAGTCACACAACAAATAACTAAATGCACACACTCCTACTCCAGTGCAATTCTCTGTCCAC  
TTCTTGGCCCCGCTCTGCATGATGACTTCAGCAGATGCCTAAGTCCTGGTCAATAGCGGCCTCGGGACTGGGACT  
AGGGAGGGGGTTCCGGGTGGAGGCTTGACGCTGCTTCCAGGAAGGAGCAGAGCCTGGGGAGGTGGAGCCCTCTTG  
CCTGGGCTCTGTGGAAGTGAGGTTTTGGAGCAGCCTCCAGAGGTGAAGGCAGGGCATCTACCTTCTCCCTCAG  
GGTTAGTTTGGGGACCTTCTGAAGCTGTAGGGTTTCCAGAGAGGTGGCAGTGGGGCAGAGCCTGTGGAGGCTCCT  
TCAGGCCCTCAGGCCTCACCGATTGGGTGTGAGAGGCTAGGAGTTGTATGAAACTGGTATGAGCCTGCATCC  
ACCTCTGGGAGGCAGGAGACCCCAAAGGACACCTGTGGACTCCCTAAGAGCCGCGGGTTTTCTATTTAGCCAGAT  
CGACAGAGAGGCAGTTTAGCCGCTTTCTGTCTGAGAGAACTGAGGCCAGCAGAGGGAGGCAGGGCACTGCCT  
GGCCTTGGCTCTTTGTTCCCTAATTACCATCTGAGGTGTGATTGCACCCCTGAGGTACCTCTGCCCAAACCTGCC  
CTGTAATGAGGCCACCTGGCTGAGAGGACCAGGGACCTGTGCTTCAAGCTGGTAGAGAAGGCCCTCCCTCACCT  
GAGTCTTGGCCTCTGTGGAGGATGCAGGATTGGGCTTGGGCTGGGTCTTTGCTGCCAGGTGGCCCTGCGGTAAT  
CATCCAGGCCTCCCATGCCTCTCAGCATCTCTGTGAGTGAATTCACCTCAGCCCTGTTTACAGACCAGCATTGG  
GCAGTGTGGTTTGGGGCCAGGGGAATTGAGATTCAATCCAGCACTGAAGGGGGAGTCTTGGTGGGGATCAGG  
GCTTGTACTGATGTCAAGGAGGTGTTTGGTCAGGATCAGTGGGTGAGGAGGGGTCTCAAGGTGGAGGGACTCTG  
ACACCACTGCCCTGCTTACAGGTGCGCTGCGAGGCCGCTGGCCAGGCCTGAGCCTCTGCCACCATGGCCATGTG  
CAGACTCTGCCAGTGCCACTGGAGCCTGCTCCTGAAGCTGCCACTGCCCCACAAGCTCCAGTCAATGGGTAGTGTG  
AGCAGCCTTATCTCAGGCCGGCCCTGTCCCGGGGGGCCAGCTCCTCCCCGCCACCACGGCCCTCCTGGGGCCACC  
TTCTTCCGCCAGCAGGATGGCCTGCTACGGGGTGGCTATGAGGCACAGGAGCCGCTGTGCCAGCTGTGCCCCCT  
AGGAAGGCTGTCCCTGTACACAGCTTACCTACATCAATGAGGACTTCCGGACAGAGTCACCCCCAGCCCAAGC  
AGTGATGTTGAGGATGCCCCGAGAGCAGCGGGCACACAATGCCACCTCCGCGGCCACCACCAAGCTCATCCCT  
GTCTCTGGAAGCTGGAGAAGAATGAGAGAAGATCCTGATCCGCCCAACAGCCTTCAAGCCAGTGCTGCCCAAA  
CCTCGAGGGGCTCCGTCCCTGCCTAGCTTCATGGGTCTCGGGCCACCGGGCTGTCTGGGAGCCAGGGCAGCCTG

**FIGURE 3035B**

ACGCAGCTGTTTGGGGGCCCTGCCCTCCTCCTCCTCCTCTTTACAGTGTGTCACAAACCCCTGGCA  
TTTAGTGGCTGGGCCAGTGGCTGCCATCAGGACGCTATCCGACTCTGGCCGAAACTCACTGTCCAGCCTGCC  
ACCTACAGCAGCGGAGGTGCCGAGCCAACCACCAGCTCCCCAGGCGGGCACCTGCCTTCCCATGGCTCTGGGCGA  
GGGGCACTGCCTGGGCCAGCCGAGGGGTCCCTACTGGGCCCTCCCACTCAGACAGTGGCCGGTCTCCTCCAGC  
AAGAGCACAGGCTCCCTAGGGGGCCGTGTGGCTGGGGGGCTTTTGGGCAGTGGTACTCGGGCCTCCCCTGCAGC  
AGCTCCTGTGGGGAGCGCTCACCACCACCCCCGCCTCCACCTCCTTCGGATGAGGCCCTGCTGCACTGTGTCTTG  
GAAGGAAAGCTCCGAGACCGGGAGGCAGAGCTTCAGCAGCTGCGGGACAGTCTGGACGAGAATGAGGCTACCATG  
TGCCAGGCATACGAGGAGCGGCAGCGGCACTGGCAGCGAGAGCGTGAGGCCCTGCGAGAGGACTGTGCGGCCAG  
GCACAGCGGGCAGCGGGCCCAACAGCTGCTGCAGCTGCAGGTGTTCCAGCTGCAGCAGGAGAAGCGGCAATTG  
CAGGACGACTTCGCACAGCTGCTGCAGGAGCGCGAACAGCTGGAGCGGCGCTGCGCCACCTTGGAGCGGGAGCAG  
CGGGAGCTCGGGCCGAGGCTTGAGGAGACCAAGTGGGAGGTGTGCCAGAAATCAGGCGAGATCTCCCTGCTGAAG  
CAGCAGCTGAAAGAGTCTCAGGCAGAGCTGGTGCAGAAGGCGAGCAGCTGGTGGCTCTGCGGGTGGCGCTGCGG  
GAGGCCCGTGCTACGCTGCGGGTCACTGAGGGCCGTGCGCGGGGTCTACAGGAGGCCGCCGAGCTCGGGAGCTG  
GAGCTGGAAGCCTGTTCCAGGAGCTGCAGCGACACCGCCAGGAAGCTGAGCAGCTGCGGGAGAAAGCTGGGCAG  
TTGGATGCTGAGGCGGCCGGACTCCGGGAGCCCCCTGTGCCACCTGCCACCGCTGACCCATTCTCTCTGGCAGAG  
AGTGATGAGGCCAAAGTGCAGCGGGCAGCAGCCGGGGTTGGGGGCAGCTTGCGGGCCAGGTGGAGCGATTGCGG  
GTGGAGCTGCAGCGGGAGCGGGCGGGGTGAGGAGCAGCGGGACAGCTTTGAGGGGGAGCGGCTGGCCTGGCAG  
GCAGAGAAGGAGCAGGTGATCCGCTACCAGAAGCAGCTGCAGCACAACTACATCCAGATGTACCGGCGCAACCGG  
CAGCTAGAGCAGGAGCTGCAGCAGCTCAGCCTGGAGCTGGAGGCCCGGGAGCTCGCTGACCTGGGCCTGGCCGAG  
CAGGCCCCCTGCATCTGCCTGGAGGAGATCACTGCTACTGAGATCTAGGGCCCTCAGCAACCAGCTCTGTAGGGA  
GCTCTGCCAGAGGGGCAGCAGCTGCAGATCCACTTAGGCCCCAGGGTCCACGGATGGCCCCAAAGGCTGAGGGCC  
CCAAAGCCACTTGTCTCTTAGGATCCAGGCCCTCTGGGCTTCTGCCAAGAACTCAGGGTGGCCCTATGACTTGGAG  
GAGCAAGATCAGACCGCTCAAAGGTCCCCGTGTTCACTGTTACCCAGAGGCTCTTGTTACTACCCACTTCATTCC  
CCACCGCTGCCAGTGCCACTGCCAACCCCTGTTACAGGCGCTTCCAGCCCACTCCAGCCAGGGGAGCAGGGAAGA  
AGAAGGGGCTCCCTCCTCTTCACATTCCCCCGACCCCAAAGCCAGAGAAAGCCAGATGGCACCAGCTGCTCCGG  
ATGTGCTTGGCCACATTGGGGGACAGGGCCGGGCTGGGCTCGGTTCCAGGTTTGAGCTCTGCAGCCTCTCTCC  
TGGAGTGAGGGGGCTGAAGTCAGACCAAAGGAAGAACTCAGAAATGTCTTGTTTATTGTGTTTGTGACCAAGCA  
GCCTCTCCCTTACCCAGGTTTATGGCCTCGTTTTCACTTGTATATTTTTACACTGTAAATTTCTGTACAAAC  
CCAAAGAAAAAATTAAAAAAATTTTTTTGTTT



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**FIGURE 3036**

MGSVSSLISGRPCGGPAPPRHHGPPGPTFFRQQDGLLRGGYEAQEPLCPAVPPRKAVPVTSFTYINEDFRTESP  
PSPSSDVEDAREQRAHNAHLRGPPPKLIPVSGKLEKNMEKILIRPTAFKPVLPKPRGAPSLPSFMGPRATGLSGS  
QGSLTQLFGGPASSSSSSSSSSAADKPLAFSGWASGCPSTLSDSGRNSLSSLPTYSTGGAEPTTSSPGGHLPSH  
GSGRGALPGPARGVPTGFSHSDSGRSSSSKSTGSLGGRVAGLLGSGTRASPDSSSCGERSPPPPPPPSDEALL  
HCVLECKLRDREAELQQLRDSLDENEATMCQAYEERQRHWQREREALREDCAAQAQRAQRAQQLLQLQVFQLQQE  
KRQLQDDFAQLLQEREQLERRCATLEREQRELGPRLKETKWEVCQKSGEISLLKQQLKESQAEELVQKGSELVALR  
VALREARATLRVSEGRARGLQEAARARELELEACSQELQRHRQEAQELREKAGQLDAEAAGLREPPVPPATADPF  
LLAESDEAKVQRAAAGVGGSRLAQVERLRVELQRERRRGEQORDSFEGERLAWQAEKEQVIRYQKQLQHNYIQMY  
RRNRQLEQELQQLSLELEARELADLGLAEQAPCICLEETATEI

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**FIGURE 3037**

CTGCTGGTAAGTGGTCTATTCTGCCCCACCCCGGGTGACTAGCTTGGCCAGTAGTCGACCCACCCGGGGACCG  
ACTCTGGGGGTTGGAGAGACTCTTGGGGCCGGGTGCGGCACTCCAGCTTTCTTCTAGCCCCGAGCTGGGATTCC  
CTGGCCTGCGCCAGCTGCGTACACGGCGAGTACACCGCACCTGCCCCGGGACTTACCCCGCAGCTGCGGAGACTCCT  
CCATTCCCGGAGGGCTCCCCACACCTGCTGCGGCCGTGCCCCATCTCCCCGCAGCTGCGGCGCTGAGCACCCCA  
TGTCGAGAGGCTGAGACCAGGACAGCAGCCCTGACCAACGCTCCAATAGGCCGGGATCCAGCCATACTTCAATGG  
ATCCAGGGGTATCTTGAAGGCATTTCCCAAGCGGCAGAAAATTCATGCTGATGCATCATCAAAAGTACTTGC  
AGATTCCTAGGAGGGAAGAGGGAGAAGAAGCAGAAGAGTGGCTGAGCTCCCTTCGGGCCCATGTTGTGCGCACTG  
GCATTGGACGAGCCCGGGCAGAACTCTTTGAGAAGCAGATTGTTGAGCATGGCGGCCAGCTATGCCCTGCCCAGG  
GCCCAGGTGTCACATTGTGGTGGATGAAGGCATGGACTATGAGCGAGCCCTCCGCCTTCTCAGACTACCCC  
AGCTGCCCCCGGGTGCTCAGCTGGTGAAGTCAGCTGGCTGAGCTTGTGCCTTCAGGAGAGGAGGCTGGTGGATG  
TAGCTGGATTGAGCATCTTCATCCCCAGTAGGTACTTGGACCATCCACAGCCAGCAAGGCAGAGCAGGATGCTT  
CTATTCTCTCTGGCACCCATGAGGCCCTGCTTCAGACAGCCCTTCTCCTCCTCCTCCTCCACCGGCCCTGTGT  
CTCCTCCCCAAAAGGCAAAAGAGGCACCAAAACACCAAGCCAGCCCATCTCTGATGATGAAGCCAGTGATGGGG  
AAGAAACCCAGGTTAGTGCAGCTGATCTGGAAGCCCTCATCAGTGGCCACTACCCACCTCCCTTGAGGGAGATT  
GTGAGCCTAGCCAGCCCTGCTGTCTGGATAAGTGGGTCTGTGCACAGCCCTCAAGCCAGAAGGCGACCAATC  
ACAACCTCCATATCACAGAGAAGCTGGAAGTTCTGGCCAAAGCCTACAGTGTTCAGGGAGACAAGTGGAGGGCCC  
TGGGCTATGCCAAGGCCATCAATGCCCTCAAGAGCTTCCATAAGCCTGTACCTCGTACCAGGAGGCCATGAGTA  
TCCCTGGGATTGGGAAGCGGATGGCTGAGAAAATCATAGAGATCCTGGAGAGCGGGCATTTCGGGAAGCTGGACC  
ATATCAGTGAGAGCGTGCTGTCTTGGAGCTCTTCTCAACATCTGGGGAGCTGGGACCAAGACTGCCCAGATGT  
GGTACCAACAGGGCTTCCGAAGCTTGAAGACATCCGCAGCCAGGCTCCCTGACAACCCAGCAGGCCATCGGCC  
TGAAGCATTACAGTGACTTCTTGAACGTATGCCCAGGGAGGAGGCTACAGAGATTGAGCAGACAGTCCAGAAAG  
CAGCCCAGGCCCTTAACCTCTGGGCTGCTGTGTGTGGCATGTGGTTTCATACCGACGGGGAAAGGCGACCTGTGGT  
ATGTGACGCTGCTCATCACTACCCAGATGGCCGGTCCCACCGGGGTATCTTCAGCCGCCTCCTTGACAGTCTTC  
GGCAGGAAGGGTTCTTCACAGATGACTTGGTGAGCCAAGAGGAGAATGGTCAGCAACAGAAGTACTTGGGGGTGT  
GCCGGCTCCCAGGGCCAGGGCGGGCGCACCGGGCGCTGGACATCATCGTGGTGCCCTATAGCGAGTTTGCCTGTG  
CCCTGCTCTACTTCACCGGCTCTGCACACTTCAACCGCTCCATGCGAGCCCTGGCCAAAACCAAGGGCATGAGTC  
TGTCAGAACATGCCCTCAGCACTGCTGTGGTCCGGAACACCCATGGCTGCAAGGTGGGGCTGGCCGAGTGCTGC  
CCACTCCCCTGAGAAGGATGTCTCAGGCTCTTAGGCCTCCCCTACCGAGAACCTGCTGAGCGGGACTGGTGCAC  
CCATGGCTGGGGGTGCTGAGGAGAGCCGAGTTGGACTGGCTACCCCTCCTGGCCACCCAGTACTCCCTCCAGCCT  
CAGCTGGCTGAACCTCGCCGCTCCAACCAACAGCTTCCTCAGCGAGCAGGGCCCAGGGCTCTGGGCCCTGAAGCAA  
GAGCCAGCCCGGCTCCCAGTGTCTGCCCCGGCTCCCAGTGTCTGCCAGCCCTCTCCAGACAGGAGCAGGCTGCC  
ACCCCTTCTACCTCACCCTGCCCCCTCGAAGAATTTTGCAAATGGCCCCCTTGCCCCATTTAAGCAGGAGCAGGT  
GGCTGGTTTGAAGCCCCAGGTATCCCCCTTCCCTGCTATGGGAAAGGCCAAGCTGCTGGGTGGGGACAGAAGCTG  
CAGGGGAGAGGGAAGCAGCCGTGCTGTCAACATCATCCGGCACCCCTCTGGGGTAGGAGAACAGCCATTCCACATG  
TGTTCCCTCTATCCGTCTGCTTCTTGGGCAGCTGGTGGTGCTGGGAATGGGGTGCCCCAGCCTTGGTGAGGACA  
GTGTTGGGAGGCCAGGGGCCAGTAAAGTGCATTGACATTGAAAAAAAAA

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**FIGURE 3038**

MDPRGILKAFPKRQKIHADASSKVLAKIPRREEGEEAEWLSSLRAHVVRTGIGRARAELFEKQIVQHGGQLCPA  
QGPGVTHIVVDEGMDYERALLRLPQLPPGAQLVKSALSLCLQERRLVDVAGFSIFIPSRYLDPQPSKAEQD  
ASIPPGTHEALLQTALSPPPPPTRPVSPQKAKEAPNTQAQPISDDEASDGEETQVSAADLEALISGHYPTSLEG  
DCEPSPAPAVLDKWVCAQPSSQKATNHNHHITEKLEVLAKAYSVQGDKWALGYAKAINALKSFHKPVTSYQEAC  
SIPGIGKMAEKIIEILESGLRKLHDHISESVPVLELFSNIWGAGTKTAQMWWYQQGFRSLEDIRSQASLTQQAI  
GLKHYSDFLERMPREEATEIEQTVQKAAQAFNSGLLCVACGSYRRGKATCGDVDVLITHPDGRSHRGIFSRLIDS  
LRQEGFLTDDLVSQEENGQQKYLGVCRLLPGPGRRHRRLDIIVVPYSEFACALLYFTGSAHFNRSRMRALAKTKGM  
SLSEHALSTAVVRNTHGCKVGPGRVLPPTTEKDVFRLLGLPYREPAERDW

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**FIGURE 3039**

ATGGCGGCGGCGGCGGCGGGAGGAGGAGGAGGAGGAGGAGGCGGCTCGGGAGTCGGCTGCCCCGCCGCGCGGGG  
CCTGCGCTCTGGCGCCTGCCGGAGGAGCTGCTGCTGCTCATCTGCTCCTACCTGGACATGCGGGCCCTCGGCCGC  
CTGGCCCAGGTGTGCCGCTGGCTGCGGCGCTTCACCAGCTGCGATCTGCTCTGGCGCCGGATAGCCCCGGGCCTCG  
CTCAACTCCGGCTTCACGCGGCTCGGCACCGACCTGATGACCAGTGTCCCAGTGAAGGAACGAGTGAAGGTGTCT  
CAGAACTGGAGACTGGGGCGCTGCCGAGAGGGGATTCTGCTGAAGTGGAGATGCAGTCAGATGCCCTGGATGCAG  
CTAGAGGATGATTCTCTGTACATATCCCAGGCTAATTTCATCCTGGCCTACCAGTTCGGTCCAGATGGTGCCAGC  
TTGAATCGTCGGCCTCTGGGAGTCTTTGCTGGGCATGATGAGGACGTTTGCCACTTTGTGCTGGCCAACTCGCAT  
ATTGTTAGTGCAGGAGGGGATGGGAAGATTGGCATTTCATAAGATTACAGCACCTTCACTGTCAAGTACTCGGCT  
CATGAACAGGAGGTGAACTGTGTGGATTGCAAAGGGGGCATCATTGTGAGTGGCTCCAGGGACAGGACGGCCAAG  
GTGTGGCCTTTGGCCTCAGGCCGGCTGGGGCAGTGCTTACACACCATCCAGACTGAAGACCGAGTCTGGTCCATT  
GCTATCAGCCATTACTCAGCTCTTTGTGACAGGGACGGCTTGTTGCGGGCACTTCTACCCCTGAGAATCTGG  
GACCTCAACAGTGGGCAGCTGATGACACACTTGGGCAGTGACTTTCCCCCAGGGGCTGGGGTGCTGGATGTCATG  
TATGAGTCCCCTTTCACACTGCTGTCCTGTGGCTATGACACCTATGTTGCTACTGGGACCTCCGCACCAGCGTC  
CGGAAATGTGTATGGAGTGGGAGGAGCCCCACGACAGCACCTGTACTGCCTGCAGACAGATGGCAACCACCTG  
CTGGCCACAGGTTCTCCTACTACGGTGTGTACGGCTGTGGGACCGCGTCAAAGGGCCTGCCTGCACGCCTTC  
CCGCTGACGTCGACTCCCCCTCAGCAGCCCTGTGTACTGCCTGCGTCTCACCACCAAGCATCTCTATGCTGCCCTG  
TCTTACAACCTCCACGTCTGGATTTCAAACCCATGA

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**FIGURE 3040**

MAAAAGEEEEEEAARESAARPAAGPALWRLPEELLLLLICSYLDMRALGRLAQVCRWLRRFTSCDLLWRRIRAS  
LNSGFTRLGTDLMTSVPVKERVKVSQNWRLGRCREGILLKWRCSQMPWMQLEDDSLYISQANFILAYQFRPDGAS  
LNRRLPLGVFAGHDEDVCHFVLANSIHVSAGGDGKIGIHKIHSTFTVKYSAHEQEVNCVDCKGGIIVSGSRDRTAK  
VWPLASGRLGQCLHTIQTEDRVWSIAISPLLSSFVTGTACCGHFSPLRIWDLNSGQLMTHLGSDFPFGAGVLDVM  
YESPFLLSCGYDTYVRYWDLRTSVRKCMWEWEEPHDSTLYCLQTDGNHLLATGSSYYGVVRLWDRRQRACLHAF  
PLTSTPLSSPVYCLRLTTKHLAALSYNLHVLDQNP

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## FIGURE 3041A

AGGCAGCAGCAGAGGGAGAGCTCGGGGCTTGGAGGGGAAACAGCGGAAGACCTAAGATTATCGGGAGGGCAGCAG  
AGGCAGAGAACGAGGACAGGACCCCTTGGCCGCTCTTCTTCAGGGAACGAGAGGTCACAGCCTCGCTCTCCGCTTA  
GGCTTCTGGCGCCCCAGCTTAAAGCCGAGGCTGCGGCTGACAAAGGGCTCGCGCCGGTCCGCCCGCCCTTCTCAT  
CCGGGCATTCCGGTCCCTGCGGAGAGGGAGGGGGAAGGGCAGAGGGGAGGGGAAGGAGCCGGAGGGGCGCACAC  
TTGGAGCTGAAGCCCTCTCCAGGGCTCCGGGCGGTGCCCAACGGACAGAGGTCGAGGAGGACCCGCAGAGGTG  
GCAGCGGCCGGGGCAGGAGGATGGTGCAGAAGGAGAGTCAAGCGACGTTGGAGGAGCGGGAGAGCGAGCTCAGC  
TCCAACCCCTGCCGCTCTGCGGGGCTCGCTGGAGCGCCGGCAGCTCCGGCACCCGGAGAAGACAACCCCGCC  
GGGGCTGGGGGAGCGCGGTGGCCGGGGCTGCAGGAGGGGCTCGGCGGTTCTCTGCGGTGTGGTGAAGGATTT  
TATGGAAGACCTTGGGTTATGGAACAGAGAAAAGAACTCTTTAGAAGGCTCCAGAAATGGGAATTAATACATAC  
TTGTATGCCCCAAAAGATGACTACAAACATAGGATGTTTTGGCGAGAGATGTATTAGTGGAGGAAGCTGAGCAA  
CTTATGACTCTCATCTCTGCTGCACGAGAATATGAGATAGAGTTTCATCTATGCGATCTCACCTGGATTGGATATC  
ACTTTTCTAACCCCAAGGAAGTATCCACATTGAAACGTAAATTTGGACCAGGTTTCTCAGTTTGGGTGCAGATCA  
TTTGCTTTGCTTTTTTGATGATATAGACCATAATATGTGTGCAGCAGACAAAGAGGTATTAGTTCTTTTGCTCAT  
GCCCCAGTCTCCATCACAATGAAATCTATCAGTACCTAGGAGAGCCAGAACTTTCTCTCTGTCCCACAGAA  
TACTGTGGCACTTTCTGTTATCCAAATGTGTCTCAGTCTCCATATTTAAGGACTGTGGGTGAAAAGCTTCTACCT  
GGAATTGAAGTGCTTTGGACAGGTCCCAAAGTTGTTTCTAAAGAAATTCAGTAGAGTCCATCGAAGAGGTTTCT  
AAGATTATTAAGAGAGCTCCAGTAATCTGGGATAACATTGCTAATGATTATGATCAGAAGAGACTGTTTCTG  
GGCCCGTACAAAGGAAGATCCACAGAACTCATCCACGGTTAAAGAGGAGTCTCACTAATCCAAATGTGAATTT  
GAAGCCAACTACGTTGCTATCCACACCCCTGCCACCTGGTACAAATCAAACATGAATGGAGTGAGAAAAGATGTA  
GTGATGACTGACAGTGAAGATAGTACTGTGTCCATCCAGATAAAATTAGAAAATGAAGGCAGTGATGAAGATATT  
GAAACTGATGACTCTATAGTCCACAGATGGCTCTAAAGCTAGCATTAAACAGAATGGTTGCAAGAGTTTGGTGTG  
CCTCATCAATACAGCAGTAGGCAAGTTGCACACAGTGGAGCTAAAGCAAGTGTAGTTGATGGGACTCCTTTAGTT  
GCAGCACCCCTCTTTAAATGCCACAACCGTAGTAACAACAGTTTATCAGGAGCCCATATGAGCCAGGGAGCAGCC  
TTGAGTGGTGAGCCTACTACTCTGACCAAGGAAGAAGAAAAGAAACAGCCTGATGAAGAACCCATGGACATGGTG  
GTGGA AAAACAAGAAGAAACGGACCACAAGATGACAATCAAATACTGAGTGAAATGTTGAAGCGAAAATGGCA  
GAGGAATTGAAACCAATGGACACTGATAAAGAGAGCATAGCTGAATCAAAATCCCCAGAGATGTCCATGCAAGAA  
GATTGTATTAGTGACATTGCCCCCATGCAACTGATGAACAGACAAACAAGGAGCAGTTTGTGCCAGGTCCAAAT  
GAAAAGCCTTTGTACACTGCGGAACCAAGTGACCTGGAGGATTGTCAGTTACTTGTGATCTATTCTACCTTCCT  
TACGAGCATGGACCCAAAGGAGCACAGATGTTACGGGAATTTCAATGGCTTCGAGCAAATAGTAGTGTGTGTCAGT  
GTCAATTGCAAAGGAAAAGACTCTGAAAAAATTGAAGAATGGCGGTACGAGCAGCCAAGTTTGAAGAGATGTGT  
GGACTAGTGATGGGAATGTTCACTCGGCTCTCCAATGTGCCAACAGGACAATTCTTTATGACATGTACTCCTAT  
GTTTGGGATATCAAGAGTATAATGTCTATGGTGAAGTCTTTTGTACAGTGGTTAGGGTGTGCTAGTCACTTCTCA  
GCACAATTTCTAATTGGAGACCAAGAACCCTGGGCCCTTAGAGGTGGTCTAGCAGGAGAGTTCCAGCGTTTGCTG  
CCAATTGATGGGGCAAATGATCTCTTTTTTACGCCACCTCCACTGACTCCTACCTCCAAAGTTTATACTATCAGA  
CCTTATTTTTCTAAGGATGAGGCATCCGTGTACAAGATTTGCAGAGAAATGTATGACGATGGAGTGGGTTTACCC  
TTTCAAAGTCAGCCTGATCTTATTGGAGACAAGTTAGTAGGAGGGCTGCTTCCCTCAGCCTGGATTACTGCTTT  
GTCTAGAAAGATGAAGATGGCATATGTGGTTATGCCCTGGGCACTGTAGATGTGACCCCTTTATTA AAAAATGT  
AAAATTTCTGGATCCCTTTCATGCAGGAGAAGTATACCAAGCCAAATGGTGACAAGGAACCTCTCTGAGGCTGAG  
AAGATGGACATTCACAAAAAAGTAACTGACCCAAGTGTGGCCAAAAGCATGATGGCTTGCTCCTGTCTTCACTG  
AAGGCTAATGGCTCCCGGGGAGCTTCTGTGAAGTGAGACCAGATGATAAAGAATTCTGGAATTTTACAGCAAG  
TTAGGATGTTTTGAAATTGCAAAAATGGAAGGATTTCCAAAGGATGTGGTTATACTTGGTCGGAGCCTGTGACAT  
TTGTTGACACTGTGAACTGTCCAAAAGTCTCTTAACTGCACCTTGTGAATGGTAGTTGAGGTCTTCATACAGTTC  
AGCCTCTAGAATGGTAACAAATCAGCCAATTGGATTGAAACAAAGAAGACTATGTAAACTCACCCATCACACT  
TTGAGACTACTCACTGGTTGGAAGAATATAGTATTGCAGCAAATCCTGTATGAAAGAGAGATGTGGGCTTCTTTT  
TTGAGTCTTGTGTTAGGTGCTGAGACCTTTTACATGGGCTTATACAGGGAGAGAGTCTTCAATAAATGTAGTCAG  
CACTATTTTTCTGCATCCAGTGTGGTTGCGTTTCTCACCTGAGAGTAATCAAGATAACATCTGTCATCTTCTTGG  
TTTATTGAGTGAAATGCCTCTCAGTCTTAGGGGACATGGCAGAGATGAAAGAAAGAAGAGTGGGTTTCAAGAGT

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**FIGURE 3041B**

GTCAGGGTGGAGTGATTCCAAGTGGGATGGTTGTGGCATTAGTTTAAGCTGAATAAATAATTTCAATTTGGGGCA  
GTTATTCTGCTTTTTGTAAAGCCGTGGCCAATTGTCTCCTGTAATGACTGTTGGTTCAGGCATGTTGTACTTTGT  
AGGGACAAATGTGCATTTGTTTGTGGCAAAAGCCTACAATTGACAAACTTGTAATTTCTTTGTATATAAACTAG  
CTGTAACCTGACTATCCTTTGTGTTTACTGTTTTGTAAATTTTTTCTCTATAAATGAAAGGGTGTGGTTCA  
GAATGGCACTTTGAATAATGTAAACCAGTGAAAAGTGGATTTTCTTTACTTTTGTCTTTGGGTTTGGGGTTGTTT  
TTGTTCTTTTTGAAGTTTTATTATTTTTAAAGTGCTCCACCTAGGCGTAGGCCATGACCATTGGGGTACGAG  
AGCCTAATTTGTAGGACTTAATCTGTTGAAAAGTGCAGTTACTTCTGGAAATTAACCTCAATATTAGGTCAGCA  
TGTGAAATGTTGGATTTGACATGTCAGGTAGGGTTTCAGGGACTGATTGGTCCCATTGCCCCTCAGGTCAGTTGTT  
TAATCTCAAGACCTGTTACTACTGATTTTATTAAATCAGAGTCTTAATTCTTGCATGTTGTATCTAATTTCTG  
AATGAATGAGCACACTTTAACCAGTTATTTACAGTTACCTTTTTCCTTTAACCGGATTGTGAAAGCTTCATGTAT  
TTTAATTTAGATTCTGTGTTTTTAAGGGTTCTGAGCATGAAGCTGGCAGATAGTCGGCAGGACTCATTTTTTCAT  
CATGGCTGGCTGATTTCTCCATAGATTGATAACAGTATTTTGTATCTTGCTTCTCTGTAGTTTTGCATCAGCTG  
TTTAACTTTGAGCTGAGTGAGGGGAGAGGGGTAAAGAGAAAGAACTTAAGTTTTCTTTCACAGAACTCCACCAT  
TGTGGGCTTTGAGAGAGCCCTAAAGCATTGTACCTAGTGGTACCTAGTGAATCCAACCAAAGCCTTTGAGTATG  
CACTAAATAGGTGAGAAGAAAGGAGAGAAGTTTTAGGTTAGAAACCTTTAACCGATAGAAGGATATGGTATGT  
TGTAAGCTGGAACCAAGTTTGCATTTTTGAGGGCTTGAGATGAAGGAAGACTCTTACCAGATAGTAAGACAGC  
TGAGTTTTCTCAGTTTTCTCGTCTTAACACTAGTGGACAATTCTAGCATTTTGTGTTGGAGGATTTCAGAGTTAA  
CCTCATGGAATTCAGGATTTTTAGCAAGTTTGCTTTTGGTTTTATCTTGGCTTTTAGTAATCATGTGGCTGGT  
CTGGTCACAGGTGACTGTGAAACAGATGCCCTGGTCTTGCTTTTCATCACTCTAGGATCATGAAGTGCTATGCTAT  
TTCTTGTTATGAATATTAAGGTTGGAATTACATTTTTATTGATTGTTTGGATCAGAGCTCAGTTCTCTGTAGAAA  
ACGAAGTGTAAAAGACCATGCAAGAGGCAAAATAAACTTGAAGTG

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FIGURE 3042A

GCCAGCGATCAGAGCAGCGCTGGGTGTTTCAGGGGCCAAGATGGCGGCGCGCCGGGGACGGAGAGACGGAGTCGCG  
CCGCCCCCGAGTGGGGGCCCGGTCCGGACCCTGGCGGGGGAGCCCGCGGCAGTGGTTGGCGAAGTCGAAGCCAA  
GCGCCGTATGGGACTTTGGGCGCTGTGAGCGGCGGCAGCAGGTGCTGCTGCATGAGGAGGCGGGTGATTCTGGC  
TTTGTCACTCTCTCGGCAGGGCCCATCTCTGAGGGACAAGGACCTGGAAATGGAGGAGCTAATGCTGCAGGAT  
GAGACACTGCTGGGGACCATGCAGAGCTACATGGATGCTCCCTTATCTCCCTCATTGAGGATTTTGGGAGCCTT  
GGAGAGAGCAGGTTATCTCTGGAGGACCACAATGAAGTGTGCTGCTACGGCTCTGACGGAGATCTTGGACAAT  
GCAGATTCTGAGAACCCTTTCTCCATTGACAGCATTCTGATTGCGAGCTGCTTGTGTACCCCCGGGAGGGCTCC  
TCTCTGCACAAGCTGCTTACTCTCTCTCGGACACCCCAAGACGTGACCTCATCACCCAGTTGACCCACTGGGG  
CCCAGTACGGGCAGCAGTAGAGGGAGTGGGGTTGAAATGTCTCTTCCAGATCCCTCTTGGGACTTCTCCCCACCC  
TCTTTCTTAGAGACCTCTTCCCCAAGCTTCTTAGCTGGAGACCCCAAGATCAAGACCACGCTGGGGCCAAATCC  
CCACCTCCCCAGCAGCGCAGTGATGGAGAAGAAGAGGAGGAGGTGGCCAGCTTCAGTGGCCAGATTCTTGCCGGG  
GAGCTTGACAACCTGTGTGAGCAGTATCCCGGACTTCCCCATGCATTTGGCCTGCCCTGAGGAGGAAGATAAAGCA  
ACAGCAGCAGAGATGGCAGTGCCAGCAGCTGGTGATGAGAGCATCTCTCCCTGAGTGAGCTGGTGCGGGCCATG  
CACCCATACTGCCTGCCAACCTCACCCACCTGGCATCACTTGAGGATGAGCTTCAGGAGCAGCCAGATGATTG  
ACACTGCCTGAGGGCTGCGTAGTGCTGGAGATTGTGGGGCAGGCAGCCACAGCTGGCGATGACCTGGAGATCCCA  
GTTGTGGTGCGACAGGTCTCTCTCGGACCCCGCCTGTGCTCTCGATGACTCGCTAGAGACTAGTTCTGCCTTG  
CAGCTGCTTATGCCTACACTGGAGTCAGAGACAGAGGCTGCTGTGCCCAAGGTAACCTCTGCTCTGAGAAAGAG  
GGGTGTCAATTGAACCTCAGAGGAGAAGCTGGACTCAGCCTGCTTATTGAAGCCAGGGAGGTGCTGGAGCCGGTG  
GTGCCAAGGAGCCTCAGAACCCACCTGCCAATGCAGCACCAGGTTCCCAAGAGCTCGAAAGGGCAGGAAGAAG  
AAGAGCAAGGAGCAGCCAGCAGCCTGTGTGGAAGGCTATGCCAGGAGGCTGAGGTATCTTCTCGCGGGCAGTCT  
ACTGTAGGTACAGAAGTGACCTCTCAGGTAGACAACCTTGCAAAACAGCCTCAGGAAGAATTCAAAAAGAGTCT  
GGGCTCTCCAGGGTAAGGGGAAGCCCCGGGCTTGGGCTCGGGCCTGGGCAGCTGCCTTGGAGAATTCTAGCCCT  
AAGAATTGGAGAGAAGTGCTGGACAAAGTAGTCTGTAAAGAAGGCCCTCTAGACCTCTACCCAAAGCTGGCT  
GACACTATCCAAACCAATCCTATACCAACCCATCTCTCATTGGTCGACTCTGCCCAAGCCAGCCCCATGCCAGTT  
GACTCTGTTGAAGCTGATCCCACTGCAGTTGGCCCTGTTCTAGCTGGCCCTGTACCTGTTGACCCTGGGTGGTT  
GACCTTGCTTCAACCAGCTCAGAACCTGGTTGAGCCTCTCCCGGCTGAGCCAGTGCTGATCAACCCAGTCTGGCT  
GACTCAGCAGCAGTTGACCCTGCAGTGGTTCCCATCTCAGATAACTTGCCACCAGTTGATGCTGTCCCGTCTGGC  
CCAGCACCAGTTGATCTAGCACTGGTTGACCCTGTTCTTAATGACCTGACTCCAGTTGACCAGTGCTAGTTAAG  
TCCAGACCAACTGATCCAGACGTGGTGCACTGTCATCAGCCCTGGGGGGTTGAGCAGCCAGCTCCTCGTGGAG  
TCAGAGTCTTGGACCCACCAAGACCATCATCCCTGAAGTCAAAGAGGTTGTGGATTCTCTGAAAATTGAAAGT  
GGTACCAGTGCTACAACCCATGAAGCCAGACCTCGGCCTCTCAGCTTATCTGAGTACCGGCGACGAAGGCAGCAA  
CGCCAGCAGAAACAGAAGAGAGAAGTCCACAGCCCCCACTGGGAAGTGGCCTAGCCTTCCAGAGACTCCACA  
GGGCTGGCAGACATCCCTTGTCTTGTATCCCAACAGCCCCAGCCAAGAAGACAGCTCTGCAGAGAAGCCCTGAA  
ACACCCCTTGAGATTGCTTGTGCTGTAGGTCCCAGCCCTGCTTCTCCTAGTCTGAGCCACCTGTAAGCAAA  
CCTGTGGCCTCATCTCCCACTGAGCAGGTGCCATCCAGGAGATGCCACTGTGGCGAGACCTTCCCTCCTGTG  
CAGTCTGTGTCCCTGTGTGCCCACACCTCCCTCGATGTCTGCTGCCCTGCCCTTCCCTGCAGGTGGGCTTGGC  
ATGCCCCCAGTCTGCCCCACCTCCCTTGACGCTCCTAGTCTTCCATTGTCTATGGGGCCAGTACTACCTGAT  
CCGTTTACTCACTATGCCCCCTTGCCATCCTGGCCTTGTATCCTCATGTGTCCCTTCTGGCTATCCTTGCCTG  
CCCCCCCCACCAACGGTGCCCCCTAGTGTCTGGTACTCCTGGTGCTATGCCGTGCCCTCCCACTTGCAGTGTGCT  
TGGGCACCCCTCCTGCCCCAGTCTCACCTACAGTTCCACATGTACCTATGGGGCCTTGGGATGGGGCCAGGG  
CCTCAACATGCTCCATTCTGGTCTACTGTTCCCCACCTCCTTGGCTCCAGCCTCCATTGGGAGAGCTGTTCCC  
CAACCTAAATGGAGTCTAGGGGCACTCCAGCTGGCCCTCCTGAAATGTACTTCCCTTGTGATGGCTCCTCCC  
CTCAGTCTTGGGCTACCTGGCCATGGAGTCTCTCAGACAGAGCCTACCAAGGTGGAGGTCAAGCCAGTGCCTGCA  
TCTCCCATCCGAAACACAAGGTGTCTGCCCTGGTGCAAAGTCCCCAGATGAAGGCTCTAGCATGTGTGTCTGCT  
GAAGGTGTGACTGTTGAGGAGCCTGCATCAGAGAGGCTAAAGCCTGAGACCAAGAGACCAGGCCAGGGAGAAG  
CCCCCTTGCCCTGCTACCAAGGCTGTTCCACACCAAGGCAGAGCACTGTCCCAAGCTGCCTGTGTCCACCCA  
GCCCGTCTAAGGAAGCTGTCTTCTGCTACCCACGTAAGGTTCTGAGATGTGGTACAGGCTTTCATC  
AGTGAGATTGGAATTGAGGCATCGGACCTGTCCAGTCTGCTGGAGCAGTTTGAGAAATCAGAAGCCAAAAAGGAG



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**FIGURE 3042B**

TGTCCTCCTCCGGCTCCTGCTGACAGCTTGGCTGTAGGAACTCAGGCGGCGTTGACATTCCCCAGGAGAAGAGG  
CCCCTAGACCGGTTACAAGCCCCAGAACTGGCCAACGTGGCAGGGCTCACCCCTCCAGCTACCCCTCCCCACCAG  
TTATGGAAGCCCCCTGGCTGCTGTCTCACTGCTGGCCAAAGCCAAATCTCCTAAGTCCACCGCCAGGAGGGAACC  
CTGAAGCCTGAAGGAGTTACGGAGGCCAAACATCCAGCTGCAGTTGCGCTCCAAGAAGGGGTCCATGGCCCTAGT  
CGAGTCCATGTGGGCTCTGGGGACCATGACTATTGTGTCCGGAGCAGGACCCCCCAAAAAGATGCCTGCCCTA  
GTCATTCCAGAGGTGGGCTCCCGATGGAATGTCAAGCGCCATCAGGACATCACCATCAAACCTGTCTTGTCTTG  
GGCCACAGTGGCCCTCCGCCCCCATGCATAGCTGCCTCCCGGGAGCCGCTTGATCACAGGACTAGCAGTGAGCAG  
GCAGATCCCTCAGCACCTGCCTTGCCCCATCCAGCTTGCTGTCCCTGAGGCCTCACCTGCCGGAATGACATG  
AACACTAGGACTCCCCCTGAACCTCAGCCAAGCAGCGGTCAATGCGCTGTTACCGAAAAGCCTGCAGGTCAGCC  
AGCCCCCTAAGCCAGGGCTGGCAGGGCCGCCGAGGCCGCAACAGCCGTTCTGTCAGCTCTGGGTCCAACCGGACT  
AGCGAAGCATCTTCCTCATCCTCATCATCGTCTTCTCATCCCGATCTCGGTCCAGGTCCCTCTCCCCCCCCACAC  
AAGAGGTGGCGAAGGTCCAGCTGTAGTTCCTCTGGACGTTCTCGAAGATGCTCTTCTCTTCTCGTCATCATCT  
TCTCTTCTGCTCTTCTCATCCTCATCATCCAGTTCTCGAAGCCGCTCACGATCCCCATCCCCCGCCGGAGAAGT  
GACAGGAGGCGGCGGTACAGCTCTTATCGTTCACATGACCATTACCAAAGGCAAAGAGTGCTACAAAAGGAGCGT  
GCAATAGAAGAAAGAAGGGTGGTCTTCATTGGAAGATACTGGCCGATGACTCGATCAGAGCTGAAACAGAGG  
TTCTCCGTTTTTGGAGAGATTGAGGAGTGACCATCCACTTCCGTGTCCAAGGGGACAACCTACGGCTTCGTCACT  
TATCGCTATGCTGAGGAGGCATTTGCAGCCATTGAGAGTGGCCACAAGCTGCGGCAGGCAGATGAGCAGCCCTTT  
GATCTCTGCTTTGGGGGCCGAAGGCAGTTCTGCAAGAGGAGCTATTCTGATCTTGACTCCAACCGGAAGACTTT  
GACCCAGCACCTGTAAAGAGCAAATTTGATTCTCTTGACTTTGACACATTGTTGAAACAGGCCCAGAAGAACCTC  
AGGAGGTAAACCTTGGGCCCTTCCCTGCTATCCTTTTTCTCCTTTGGAGGTGCCCAACCTCCTCCACCCCTTCCC  
CTACTCTAGGGGAGAGAGCTGCTAGTGAGATGACTGTTTTATAAAGAAATGGAAAAAGTGAAATAAAAAATATG  
TTGAATCAGATTTTTTAAAGGGGTATTTGTTTTTTTATAACAGGTATTGAAACAAGTTAACTTGCAATTCCTATG  
TAAGATAGGAGGGGCTGAGGGGATCCCCAGTGTGGAACATAAGTCACTATGCAGACTAATAAACATCAACTAG  
AGAGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 3043**

MAARRGRDGVAPPPSGGPGDPGGGARGSGWRSRSQAPYGTLGAVSGGEQVLLHEEAGDSGFVSLSRQGPSLRD  
KDLEMEELMLQDETLLGTMQSYMDASLISLIEDFGSLGESRLSLEDHNEVSLLTALTEILDNADSENLSPFDSIP  
DSELLVSPREGSSSLHKLLTSLRTPPERDLITPVDPLGPSTGSSRSGVEMSLPDP SWDFSPPSFLETSSPKLP SW  
RPPRSRPRWGQSPPPQQRSDGEEEEEVASFSGQILAGELDNCVSSIPDFPMHLACPEEEDKATAAEMAVPAAGDE  
SISSLSELVRAMHPYCLPNLTHLASLEDELQEQPDDLTLPEGCVVLEIVGQAATAGDDLEIPVVVRQVSPGPRPV  
LLDDSLTSSALQLLMP TLESETEAAVPKVTLCSEKEGLSLNSEEKLDSACLLKPREVVEPVVPKEPQNPPANAA  
PGSQRRARKGRKKKSKEQPAACVEGYARRLRSSSRGQSTVGTEVTSQVDNLQKQPQEELQKESGPLQGKGKPRAWA  
RAWAAALENSSPKNLSRAGQSSPAKEGPLDLYPKLADTIQTNPIPTHLSLVDSAQASMPVDSVEADPTAVGPV  
LAGVPVDPGLVDLASTSSELVEPLPAEPVLINPVLADSAAVDPAVVPISDNLPVDAVPSGPAPVDLALVDPVP  
NDLTPVDPVLVKSRTDPRRGAVSSALGGSAPQLLVESESLDPPKTIIEVKEVVDSLKIESGTSATTHEARPRP  
LSLSEYRRRRRQQRQAETEERSQPPTGKWP SLPETPTGLADIPCLVI PPAPAKKTALQ RSPETPLEICLVPGPS  
PASPSPEPPVSKPVASSPTEQVPSQEMPLLARPSPPVQSVSPAVPTPPSMSAALFFPAGGLGMPPLPPPPPLQPP  
SLPLSMGFPVLPDPFTHYAPLPSWPCYPHVSPSGYPCLPPPTVPLVSGTPGAYAVPPTCSVPWAPPPAPVSPYSS  
TCTYGLGWGPGPQHAPFWSTVPPPPPLPPASIGRAVPQPKMESRGTPAGPPENVLP LSMAPPLSLGLPGHGAPQT  
EPTKVEVKVPVPASPHPKHKVSALVQSPQMKALACVSAEGVTVEEPASERLKPETQETRPREKPPLPATKAVPTPR  
QSTVPKLEPAVHPARLRKLSFLPTPRTQGSDEVVQAFISEIGIEASDLSSLLEQFEKSEAKKECPPAPADSLAVG  
NSGGVDIPQEKRLDRLQAPELANVAGLTPPATPPHQLWKPLAAVSL LAKAKSPKSTAQEGTLKEGVTEAKHPA  
AVRLQEGVHGPSRVHVGSGDHDYCVRSRTPPKMPALVIEVGSRWNVKRHQDITIKPVL SLGPAAPPPPCIAAS  
REPLDHRTSSEQADPSAPCLAPSSLLSPEASPCRNDMNTRTPPEPSAKQ RSMRCYRKACRSASPSSQGWQRRGR  
NSRSVSSGNSRTSEASSSSSSSSSSSRSRSLSPPHKRWRSSSCSSSGRSRRCSSSSSSSSSSSSSSSSSSSSSR  
SRSRSPSPRRRSRRRRYSSYRSHDHYQRQRLQKERAIEERRVVF IGKIPGRMTRSELKQRF SVFGEIEECTIH  
FRVQGDNYGFVTYRYAEEFAAIESGHKLRQADEQPFDLFCGRRRQFCRYSYSDLDSNREDFDPAPVKS KFDSLD  
FDTLLKQAQKNLRR

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**FIGURE 3044A**

GTCGTGCTGCGTCGACAACGGTAGTGACGCGTATTGCCCTGGAGGATGGCGGACGCCGGCATTCCGCCGCTGGTTC  
CCAGCGACCTGTATCCCCTCGTGCTCGGCTTCCTGCGCGATAACCAACTCTCAGAGGTGGCCAATAAGTTCGCCA  
AAGCGACAGGAGCTACACAGCAGGATGCCAATGCCTCTTCCCTCTTAGACATCTATAGCTTCTGGCTCAAGTCTG  
CCAAGTCCCAGAGCGAAAAGTTACAGGCAAATGGACCAGTGGCTAAGAAAGCTAAGAAGAAGGCCCTCATCCAGTG  
ACAGTGAGGACAGCAGCGAGGAGGAGGAGGAAGTTCAAGGGCCTCCAGCAAAGAAGGCTGCTGTACCTGCCAAGC  
GAGTCGGTCTGCCTCCTGGGAAGGCTGCAGCCAAAGCATCAGAGAGTAGCAGCAGTGAAGAGTCCAGTGATGATG  
ATGATGAGGAGGACCAAAAGAAACAGCCTGTCCAGAAGGGAGTTAAGCCCCAAGCCAAGGCAGCCAAAGCTCCTC  
CTAAGAAGGCCAAGAGCTCTGATTCTGATTCTGACTCAAGCTCCGAGGATGAGCCACCAAGAACCAGAAGCCAA  
AGATAACACCTGTGACAGTTAAAGCTCAGACTAAAGCCCCCTCCAAACCAGCTCGAGCAGCACCTAAAATAGCCA  
ATGGTAAAGCAGCCAGTAGCAGCAGTAGCAGCAGCAGCAGTAGCAGTGATGACTCAGAGGAGGAGAAGGCAG  
CAGCCACCCCCAAGAAGGTCTGGACCATAACTTCTGTGAGGGCAGAGACTGTACCTAAAAAGCAAGTTGTGGCCA  
AGGCCCCAGTGAAAGCAGCTACCACCCCTACCCGGAAGAGTTCTAGCAGTGAGGATTCTCCAGTGACGAGGAAG  
AGGAGCAAAAAAACCCTATGAAAAATAAACAGGTCCCTACAGTTCAGTCCCCCGCCTTCTGCTCCCCACCAA  
AGAAGTCTCTGGGAACCCAGCCTCCCAAGAAGGCTGTGGAGAAGCAGCAGCCTGTGGAAAGCAGTGAAGACAGCA  
GTGATGAGTCTGATTCAAGTTCTGAAGAAGAGAAGAAACCCCCAACTAAGGCAGTAGTCTCTAAAGCAACCACTA  
AACCACCTCCAGCAAAGAAAGCAGCAGAGAGCTCTTCAGACAGCTCAGACTCTGACAGCTCTGAGGATGATGAAG  
CTCCTTCTAAGCCAGCTGGTACCACCAAGAATTCTTCAAATAAGCCAGCTGTCACCACCAAGTCACCTGCAGTGA  
AGCCAGCTGCAGCCCCCAAGCAACCTGTGGCGGTGGCCAGAAGCTTCTGACGAGAAAGGCTGACAGCAGCTCCA  
GTGAGGAAGAGAGCAGCTCCAGTGAGGAGGAGAAGACAAAGAAGATGGTGGCCACCCTAAGCCCCAAGGCGACTG  
CCAAAGCAGCTCTATCTCTGCCTGCCAAGCAGGCTCCTCAGGGTAGTAGGGACAGCAGCTCTGATTACAGACAGCT  
CCAGCAGTGAGGAGGAGGAAGAGAAGACATCTAAGTCTGCAGTTAAGAAGAAGCCACAGAAGGTAGCAGGAGGTG  
CAGCCCCCTTCCAAGCCAGCCTCTGCAAAGAAAGGAAAGGCTGAGAGCAGCAACAGTTCTTCTCTGATGACTCCA  
GTGAGGAAGAGGAAGAGAAGCTCAAGGGCAAGGGCTCTCAAGACCACAAGCCCCCAAGGCCAATGGCACCTCTG  
CACTGACTGCCCAGAATGGAAGAGCAGCTAAGAACAGTGAGGAGGAGGAAGAAGAAAAGAAAAGCGGCGAGTGG  
TAGTTTCCAAATCAGGTTTATTAAAGAAGCGGAAGCAGAATGAGGCTGCCAAGGAGGCAGAGACTCCTCAGGCCA  
AGAAGATAAAGCTTCAGACCCCTAACACATTTCCAAAAAGGAAGAAAGGAGAAAAAAGGGCATCATCCCCATTCC  
GAAGGGTCAGGGAGGAGGAATTGAGGTGGATTACAGAGTTGCGGACAACCTCTTTGATGCCAAGCGAGGTGCAG  
CCGAGACTGGGGAGAGCGAGCCAATCAGGTTTTGAAGTTCACCAAGGCAAGTCCTTTCCGCATGAGAAAACCA  
AGAAGAAGCGGGGAGCTACCGGGGAGGCTCAATCTCTGTCCAGGTCAATTCTATTAAAGTTGACAGCGAGTGAC  
CTGAGGCCATCTTCGGTGAAGCAAGGGTGATGATCGGAGACTACTTACTTTCTCCAGTGGACCTGGGAACCTCA  
GGTCTCTAGGTGAGGGTCTTGATGAGGACAGAAGTTTAGAGTAGGTCTTAAGACTTTACAGTGTAACATCCTCTC  
TGGTCCTTTTCTGTGTTCTAGTTTTGTACAGACTTGTTTTGTAGTGTGAGTAGCAGGGACAAAATAAGGGAAT  
GTTATTTTTTAAGAAAATTCATTTTTATTGTTGTCTCCTTTCTGTGAAAGTCCTCATACTGAGAAATTTG  
TATATTTTATATTAATCACTTACTATTGATTTTTGTGTGATTTTCAAAGGTGGATTCCACAGATAAAATCTT  
GGCTATTGCCCAAAACATAGTAAAGGGTCACGTGTGACTTTTTATAATAGGAAGAAAATTCGCTTTGTGAGTG  
CACATGTCCACATTTTCATCCCTCCTTCCCTCAAACCTAGAGAGGGGCATTAAAGAATTGTTGATGTATATGCA  
ATGTCTGTTAAGCATGCACTATGTATTTTCATCCTCATTTATTGGGTCTGGGACTGAAGTTTTAGCCAGCATGGA  
CCTAACCTACTTTTTGGGATAAAATTCCTGTTTTGTACAGGCAAAATTCCTGGTATGGCGTGAATGCCATGGGT  
CATTCTGAATATATTTTTTCTGTAATTTTATCATTACAGATGTTTGCAATACGTGCTTTGTTTTTTAATTTGA  
AAGCAAACCTTTTCTACTGTTGAAAGACATTTTTTGACAACTTGACCCCTTCCTAGTATTGAGTTCTAAGTTGAGGA  
CTGCATCTTCTCGTTTTTTACAGTATAGAGAACAAAATGACATGAGTTTGAAAAATACATATCACTTGGTATTGC  
TGTCTTGGTTGCACTGGTGATACAGAATTGGTTTCATTAATTCCTACATGGTTGAGAATCACTGATCAAGAAAGT  
GGGGGGAAAAAACAACGTTAAACCTCAATCCTCAGTAGGAAGGTAGATTACATTAGGTGAAATTATAGGTA  
ATCTATGTATGTGCTAATGGGGTTGGAAAGAACCTTACAGAGCATATTACCTGATAAACTGGAGTGGGTTGGGA  
GAACAACTAATAGGATTATTGTGTCTCCTAGTTGGTACCTGGGAGCAATTGACATGCCCCCTTCAGAACCTTAA  
CTGTTAGTAGCAGTGGCTGTAAACAACACAAACCAGTGACCAGAGATAACAGCTTTTAGGCCAAGCTGGCCTGACG  
GTATGGCTGCAGGAAGTGACTGAGCAGTAGCGTACTCAGCCAGACCAAGACGGAGAGGGAAGAGTCCACAGCTT  
TCTGGAAGCTAAGGCATTCTGGTGGTAGAAAAGTGTGCCCAAGCCTTCATGGACGAGTTATAGGTCTTAAGATT

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**FIGURE 3044B**

AGTCTCCTCTTGTTTGGATTCCATACTTGCTAAATAACCTGATAATAACCTGGTTTTCCATGTAAGTGCCTCTAG  
GAAGAAAATGTACTGTTTCATGCTGACACAGATATTTTCAGTCTGCATGGTAAAAGTTCTAAATCTTACTACAAAAT  
AATAAACTGGCTGGTTTATAATGTG

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**FIGURE 3045A**

GACAGGGAAGGTACCCGGCTCTACTGCCCCGTCGGGACGACTCATCTGGCGGACTGTGCAGTCCCACCCTGACT  
TCAGCCTCAATTTCCAGGAAACAGGCTCCTTCTCTTCTCCCATCTGCTACCAGAGCCGGGAGAGCTGCTCGGAGA  
CGCCTCCGGGGTGCGGGCTGGACATGAGCAGCGGCTGCCGGTCTGGGACTAGGCCCGCCATTTTGATCCGCT  
GACAGGTTTGCCAAGATGGTGGATAAGAATATTTACATCATTCAAGGGGAGATTAACATTGTGGTTGGGGCCATC  
AAACGAAATGCCGATGGAGCACCCATACACCCTGGATGAAGAACGGGATCCTCTGCTGCATAGTTTCGGTCAT  
CTAAAGGAGGTTTTAAACAGTATAACAGAACTCTCAGAAATTGAGCCCAATGTATTCTTCGACCTTTTCTGGAA  
GTGATTGCTCTGAAGATACCACTGGCCCTATCACTGGACTGGCACTCACCTCTGTCAACAAGTTCTGTCTCTAT  
GCATCATAGATCCCACCCATGAGGGCACAGCAGAGGGCATGGAGAACATGGCAGATGCTGTCACCCATGCTCGT  
TTTGTGGGCACGGATCCTGCCAGTGATGAAGTTGTCTGTATGAAAATCCTTCAGGTTCTACGGACTCTGCTGCTA  
ACCCAGTGGGTGCCACCTAACCAATGAATCTGTGTGTGAGATTATGCAGTCTTGCTTCCGGATCTGCTTTGAA  
ATGAGGCTCAGTGAGTTATTGAGAAAATCCGCAGAGCACACTCTCGTAGACATGGTGCAGCTGCTCTTCACAAGG  
TTACCTCAGTTTAAAGAAGAACCCAAGAATACTGTGGGGACCAACATGAAGAAGCTGAAAATGAGAGCCGGAGGC  
ATGAGTGATTTCATCCAAATGGAAGAAACAGAAGAGATCCCCTCGGCCCCACGCCATATGACCAAAGTCACACCA  
GGTTCAGAGCTGCCACTCCCAATGGAACCACTTATCATCTAACCTCACTGGTGGCATGCCCTTCATTGATGTG  
CCCCTCCCATCTCCTCTGCAAGTTCAGAAGCTGCCTCAGCAGTGGTCAGTCCCTCTACAGACAGTGGCCTGGAA  
TTCTCCTCCCAAACCACTTCCAAGGAAGACCTTACTGATCTAGAGCAACCTGGCTCTCCAGGGTACAGCACAGCT  
ACAGAGCCTGGAAGCAGTGAGCTAGGTGTTCCCGAGCAGCCTGACCTCCAGGAAGGGACCCATGTGGAAGAGTCC  
CAGTCAGCATCTGTGGAGTCCATCCCTGAAGTGTAGAGGAGTGCAGTCCCTGCCGACCACTCTGACTCTGCC  
TCTGTCCATGACATGGATTACGTCAATCCCGGGGCGTGCGCTTTACACAGTCTCCAGAAAGAAGGCACAGCT  
TTGGTCCCTATGGTCTTCCCTGCATCCGCGAGCTCTTCCGCTTCTCATCTCCCTCACCATCCACACGACCGC  
CATAACTCAGAGGTTATGATTCACATGGGACTGCATTTGCTGACAGTGGCCCTTGAGTCAGCCCTGTAGCCCAG  
TGCCAGACCCTCTTGGGCCTCATCAAGGATGAGATGTGCCGTCACTTATTCCAGCTACTCAGCATAGAGCGACTA  
AACCTTTATGCTGCTTCCCTGCGAGTATGCTTCTACTGTTTGAGAGCATGCGAGAGCACCTCAAGTTCCAAATG  
GAGATGTACATCAAAAAGCTTATGGAGATCATCACTGTGGAGAACCCCAAGATGCCTTATGAGATGAAGGAGATG  
GCACTGGAGGCCATTGTGCAGCTCTGGCGCATCCCCAGCTTTGTACAGAGCTCTACATCAACTATGATTGTGAC  
TACTACTGTTCACCTCTTTGAGGAACCTACAAAGCTGCTGTCCAAGAATGCCTTCCCTGTGTCTGGTCAACTC  
TATACAACACACCTACTATCTCTTGATGCCCTATTGACAGTGATTGACAGCACCGAGGCCCACTGCCAGGCTAAA  
GTCCTCAACAGCCTCACCCAGCAAGAGAAGAGAGACAGCCAGACCAAGCTGTGAGATAGTAGATGGCACCCGA  
GAAGCTAGCAATACTGAGAGAACTGCCAGCGATGGGAAAGCTGTAGGCATGGCCTCAGACATCCAGGCCTGCAT  
CTGCCAGGTGGAGGGCGGCTGCCACCAGAACATGGGAAATCAGGATGCAGTGATCTGGAGGAAGCTGTTGACTCT  
GGGGCTGACAAAAAGTTTGCCCGGAAGCCACCCGATTTTCTGTCTCTGCCAGATCCACGGGAACATAATTGAA  
ATTAAAAACAAAAAGAAGCTGCTAATCACTGGCACAGAGCAGTTCAATCAGAAACCAAGAAGGGGATTAGTTT  
CTGCAAGAGAAAGGCCTCCTCACCATCCCAATGGACAACACAGAGGTTGCTCAGTGGCTCCGAGAGAACCCTCGG  
CTGGACAAGAAGATGATTGGAGAGTTTGTGAGTGACCGCAAAAACATTGACCTGTTGGAGAGCTTTGTGAGCACC  
TTCAGTTTTTCAGGGTCTGCGACTGGACGAAGCCCTCCGCTCTACCTGGAAGCCTTCCGTTTGCTGGGGAAGCA  
CCAGTCATCCAGAGGTTGCTGGAGGCATTACAGAGCGTTGGATGAATTGTAATGGCTCCCCATTGCCAATAGC  
GATGCCTGCTTTTCCCTGGCCTATGCTGTCTCATGCTTAATACTGACCAGCACAAACCACAATGTTTCGTAAACAG  
AATGCACCCATGACCCTGGAGGAGTTTCGCAAAAATCTGAAAGGTGTGAATGGAGGCAAGGACTTTGAGCAAGAC  
ATCCTGGAGGACATGTACCATGCCATCAAGATGAGGAAATTGTAATGCCTGAGGAGCAGACAGGCTTGGTTCCG  
GAGAACTATGTGTGGAATGTGCTGCTTCATCGAGGTGCCACCCCTGAGGGCATATTCTGCGTGTGCTTACTGCC  
AGCTATGATCTTGACCTCTTACCATGACCTGGGGCCCCACTATTGCTGCTCTCTCTTATGTCTTTGACAAAAGC  
CTTGAGGAGACAATCATCCAGAAAGCCATCTCAGGCTTCAGGAAGTGCGCCATGATCTCCGCCCACTATGGCCTC  
AGCGATGTGTTTGACAATCTCATCTCTCTATGCAAATTCACAGCTCTCAGCAGTGAGTCTATTGAGAACCTG  
CCCAGTGATTTTGAAGCAACCCATAAGGCCATATTGCAGCCAAGACAGTATTCATTTGGCCCATCGTCATGGT  
GACATCCTGCGGGAGGGCTGGAAGAATATCATGGAGGCCATGCTGCAGCTCTTCCGAGCCCACTACTGCCCAAG  
GCTATGATAGAGGTAGAAGATTTGCTGGATCCCAATGGCAAGATCTCTTACAGCGGGAAGAGACACCATCAAAC  
CGAGGAGAGTCAACAGTGTGAGCTTTGTGAGCTGGCTAACACTGAGTGGTCTGAGCAGTCTAGTGTTCCGGGC  
CCATCCACTGAAAACCAAGAGGCCAAGAGAGTGGCCTTAGAGTGTATAAAGCAATGTGACCCAGAAAAAATGATC

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**FIGURE 3045B**

ACAGAAAGCAAGTTCCTCCAGCTGGAGTCACTACAGGAGCTCATGAAGGCTCTGGTCTCAGTGACACCAGATGAA  
GAGACATATGATGAGGAAGATGCTGCTTTCTGCCTAGAGATGCTGCTAAGGATTGTGTGGAGAACAGGGATCGT  
GTGGGCTGTGTGGCAGACTGTTTCGAGACCATCTATACCACCTCTGTGTTTCAGGCACAAGATTTCTGCTTCCTT  
GTGGAGCGGGCAGTGGTGGGGTTGCTACGCCTGGCCATTTCGGCTTCTCCGGAGAGAAGAGATCAGTGCTCAGGTG  
CTGCTCTCCCTGCGCATTTTGCTACTGATGAAGCCCAGTGTGCTATCCCGAGTCAGCCACCAGGTTGCGTATGGG  
CTCCATGAACCTCTGAAGACCAATGCAGCCAACATCCACTCAGGTGATGACTGGGCCACACTCTTCACACTGCTG  
GAGTGCATCGGCTCAGGTGTGAAGCCTCCAGCTGCTCTGCAGGCCACAGCCAGGGCAGATGCACCTGATGCCGGG  
GCCCAGTCAGATAGTGAGCTCCCATCCTACCATCAGAATGACGTGAGCCTGGATCGAGGGTACACTTCCGACTCA  
GAGGTCTACACTGACCATGGCAGGCCGGGCAAGATACACCGATCAGCCACAGATGCCGATGTGGTCAACAGTGGT  
TGGTTAGTGGTTGGGAAGGATGACGTTGATAACTCCAAGCCAGGGCCCAGCCGCCAGGCCCTTCACCCCTGATC  
AATCAATACAGCCTAACAGTGGGACTGGATTTGGGGCCACACGACACTAAGTCTCTGCTTAAGTGTGTGGAATCG  
CTGTCTTCATCGTGCCTGATGCTGCCCACATCACACCTGACAACCTTGAGCTCTGCGTCAAGACTCTCCGATC  
TTTGTGGAGGCCAGTCTGAATGGCGGATGCAAGTCCCAGGAGAAACGTGGCAAGAGTCACAAATATGACAGCAAA  
GGGAACCGCTTCAAGAAGAAATCCAAAGAGGGATCAATGCTTCGCCGGCTCGAACCTCCAGCCAACATGCCCTCT  
CGGGGCGGGCAGAGTGATGATGATGAGGACGAAGGCGTGCTGCCAGCTACCATACGGTGTCTTTACAGGTCACT  
CAGGACTTGCTAGACCTGATGCACACCTGCACACGCGGGCAGCCTCTATCTACAGCTCATGGGCGGAGGAGCAA  
CGCCACCTGGAGACAGGTGGCCAGAAGATTGAAGCTGATTCTCGCACCTCTGGGCCCACTGCTGGTGGCCCTTA  
CTGCAGGGTATTGCCGTGCTGTGCTGCGATGCCCGGCGCAGGTACGGATGCAGGCACTGACCTATCTGCAGCGA  
GCACTACTTGATCATGATCTGCAAAAGCTAGATGCCCTGGAATGGGAGTCTGTTTTAACAAGGTGCTGTTTCCT  
CTACTTACCAAGCTCTTGAGAACATCAGCCCTGCAGATGTGGGTGGGATGGAGGAGACCCGGATGAGGGCTTCC  
ACATTGCTCTCTAAGGTCTTCTGTCAGACCTGTCTCCACTGCTGTCACTCTCTACCTTTGCGGCCCTCTGGCTC  
ACCATCTTGGACTTCATGGACAAGTACATGCACGCAGGTCCAGCGACTTACTGTGAGAGGCGATCCCTGAGTCT  
CTGAAGAACATGCTTCTGGTGATGGACACAGCGGAGATTTCCACAGTGCAGATGCACGGGGAGGCGGCCCTCG  
GCCCTCTGGGAGATCACCTGGGAACGCATTGACTGTTTTCTCCCTCACCTACGAGATGAACTCTTCAAGCAGACC  
GTCATCCAGGACCCCATGCCATGGAGCCTCAAGGCCAAAGCCTCTCGCCTCAGCCACCTGACTTCCGCTGCT  
GGCGACACTAGGACACCTGGCCATCCACCGCCCCAGAGATTCCATCTGAGCTGGGGGCTGTGACTTTGAGAAG  
CCCGAGAGCCCCGAGCGCCAGCAGCAGCTCCCCAGGATCACCAGTGGCCTCAAGCCCCAGCAGGCTGAGCCCC  
ACCCCCGACGGGCTCCACCTTGGCTCAGCCCCCACTGATCCTGCAGCCCTTGGCCTCCCCACTGCAGGTGGGC  
GTGCCACCTATGACTCTGCCCATCATCCTCAACCCTGCGCTCATCGAGGCCACCTCACCAGTCCCCCTCTGGCC  
ACACCCCGCCCCACAGATCCCATACCCACCTCTGAGGTCAACTAAGGCAGGTCACTCAGAGATCAGGACCAGTGC  
TTCCACACAGGCTTTTCCTTGACCCCACTTCTGGCTGTCTGCGGGCCACAAGCTCTTCAGGCCAAGTCAGAGCTG  
CTGTTGCTGCCACTTGATGGGGACCTGAAAAAGAGAATGTTGATAGCCCCAGCTAAGACCCCAATCAGCTGTG  
GGACCTTTTTCTCCTCTGCGCTCCATTCTGGGGGTTACGCTGAGAGTGAACCTCAGCTGTCTGTCAGCCTC  
TGCCTCCAGCCCGGCAGCTCTGGGGAGGCATCCGTGTGCCGGCCCTGCAGTGCCTGCCACGGTCAGGCATTGAA  
AACTAAGCCCAACCACTCTGCACTTTGTTTCCCACTCCCATAGCCCTGGGCCA'CCTCCTCAGTTCTTCTCTT  
TTACTAATTAGTTGGTCAGTTTGGAGAGTTGACTGGCACCATGGAGGGTAGGCAGGTGGGGGCTGGGTGGGGGAC  
TGCCACAGGAGCATGTACATATGAAAAACAGAACAACAGTGGACTTTTTATGATATAATAAATGTCTTAGTAC

C

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**FIGURE 3046**

MVDKNIYIIQGEINIVVGAIKRNARWSTHTPLDEERDPLLHSFGHLKEVLNSITELSEIEPNVFLRPFLEVIRSE  
DTTGPITGLALTSVNKFLSYALIDPTHEGTAEGMENMADAVTHARFVGTDPASDEVVLMKILQVLRLLLLTPVGA  
HLTNE SVCEIMQSCFRICFEMRLSELLRKS AEHTLVDMVQLLFTRLPQFKEEPKNYVGTNMKKLKM RAGGMSDSS  
KWKKQKRSRPPRHM TKVTPGSELPTPNGTTLSSNL TGGMPFIDVPTPISSASSEAA SAVVSPSTDSGLEFSSQT  
TSKEDLTDL EQPGSPGYSTATEPGSSELGVPEQPD LQEGTHVEKSQSASVESI EVLEECTSPADHSDSASVHDM  
DYVNPGRVRF TQSSQKEGTALVPYGLPCIRELFRFLISLTNPHDRHNSEVM IHMGLHLLTVALESAPVAQCQTLL  
GLIKDEMCRHLFQLLS IERLNLYAASLRVCFLLFESMREHLKFQMEMYIKKLMEIITVENPKMPYEMKEMALEAI  
VQLWRIPSFVTELYINYDCDYCSNLFEELTKLLSKNAFPVSGQLYTTLLSLDALLTVIDSTEAH CQAKVLNSL  
TQQEKKETARP SCEIVDGTREASNTERTASDGKAVGMASDIPGLHLPGGGRLPPEHGKSGCSDLEEAVDSGADKK  
FARKPPRFSCILPDPRELIEIKNKKLLITGTEQFNQPKKGIQFLQEKGLLTPMDNTEVAQWLRENPRLDKKM  
IGEFVSDRKNIDLLESFVSTFSFQGLRLDEALRLYLEAFRLPGEAPVIQRLLEAFTERWMNCNGSPFANS DACFS  
LAYAVIMLNTDQHNNHVRKQ NAPMTLEEF RKNLKG VNGGKDFEQDILED MYHAIKNEEIVMPEEQTGLVRENYVW  
NVLLHRGATPEGIFLRVPTASYDLDLFTMTWGPTIAALSYVFDKSLEETIIQK AISGFRKCAMISAHYGLSDVFD  
NLIISLCKFTALSSESIENLPSVFGSNPKAHIAAKTVFHLAHRHGDILREGWKNIMEAMLQLFRAQLLPKAMIEV  
EDFVDPNGKISLQREETPSNRGESTVLSFVSWLTL SGPEQSSVRGPSTENQEAKRVALEC IKQCDPEKMITESKF  
LQLES LQELMKALVSVTPDEETYDEEDAAFCLEMLLRIVLENRDRVGC VQTVRDHLYHLCVQAQDFCFLVERAV  
VGLLR LAIRLLRREEISAQVLLSLRILLMKPSVLSRVSHQVAYGLHELLKTNAANIHS GDDWATLFTLLECIGS  
GVKPPAALQATARADAPDAGAQSDSELPSYHQNDVSLDRGYTSDSEVYTDHGRPGKIHR SATDADV VNSGWL VVG  
KDDVDNSKPGPSRPGPSPLINQYSLTVGLDLGPHDTKSLLKCVESLSFIVRDAAHITPDNFELCVKTLRIFVEAS  
LNGGCKSQEKRGKSHKYDSKGNRFKKKSKEGSM LRRPRTSSQHASRGGQSDDDEDEGVPASYHTVSLQVSQDLLD  
LMHTLHTRAASIYSSWAEQ RHLETGGQKIEADSRTLWAHCWCPLLQGIACLCCDARRQVRMQALTYLQ RALLVH  
DLQKLDAL EWESCFNKVLFPLLT KLENISPADVGGMEETRM RASTLLSKVFLQHLSPLLSLSTFAALWLTILDF  
MDKYM HAGSSDLLSEAIPESLKNM LLMVMDTAEIFHSADARGGGSALWEITWERIDCF LPHLRDELFKQTVIQDP  
MPMEPQGQKPLASAHLTSAAGDTRTPGHPPPEIPSELGACDFEKPESPRAASSSSPGSPVASSPSRLSPTPDGP  
PPLAQPLILQPLASPLQGVPPMTLP IILNPALIEATSPVPLLATPRPTDPIPTSEVN

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**FIGURE 3047**

CTCGTTGGTGGGGCTGGGGGATGAGAGCTGCACCGCGCGGGACAAGTCGCCGGCGGGCGCCCGACGGAGCAGAAGA  
GAGAGCATGGGAGCTGGAGAGGATCGTCAGTGCAGCCCTCCTTGCCCTTTGTCCAGACACACCTCCCGGAGGCCGAC  
CTCAGTGGCTTGATGAGGTCATCTTCTCCTATGTGCTTGGGGTCCTGGAGGACCTGGGCCCCCTCGGGCCCATCA  
GAGGAGAACTTCGATATGGAGGCTTTCAGTGAATGATGGAGGCCTATGTGCCTGGCTTCGCCCACATCCCCAGG  
GGCACAATAGGGGACATGATGCAGAAGCTCTCAGGGCAGCTGAGCGATGCCAGGAACAAAGAGAACCTGCAACCG  
CAGAGCTCTGGTGTCCAAGGTCAGGTGCCCATCTCCCCAGAGCCCCTGCAGCGGCCCGAAATGCTCAAAGAAGAG  
ACTAGGTCTTCGGCTGCTGCTGCTGCAGACACCCAAGATGAGGCAACTGGCGCTGAGGAGGAGCTTCTGCCAGGG  
GTGGATGTACTCCTGGAGGTGTTCCCTACCTGTTTCGGTGGAGCAGGCCCAGTGGGTGCTGGCCAAAGCTCGGGGG  
GACTTGGAAGAAGCTGTGCAGATGCTGGTAGAGGGAAAGGAAGAGGGGCCTGCAGCCTGGGAGGGCCCCAACCCAG  
GACCTGCCCCAGACGCCTCAGAGGCCCCCAAAAGGATGAGCTGAAGTCCTTCATCCTGCAGAAGTACATGATGGTG  
GATAGCGCATAGTATCAGAAGATTACCGGCCCATGGCTCCCAAGGAGGCCCCCAAGAAGCTGATCCGATACATC  
GACAACCAGGTAGTGAGCACCAAAGGGGAGCGATTCAAAGATGTGCGGAACCCTGAGGCCGAGGAGATGAAGGCC  
ACATACATCAACCTCAAGCCAGCCAGAAAGTACCGCTTCCATTGAGGCACTCGCCGGAATCTGCCCGAGCCTTCT  
AGGCTCAGATCCCAGAGGGATGCAGGAGCCCTATACCCCTACACAGGGGGCCCCCTAACTCCTGTCCCCCTTCTCT  
ACTCCTTTGCTCCATAGTGTTAACCTACTCTCGGAGCTGCCTCCATGGGCACAGTAAAGGTGGCCCAAGGAAAAA  
AAAAAAAAAAAAAAAAAAAAA



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**FIGURE 3048**

MELERIVSAALLAFVQTHLPEADLSGLDEVIFSYVLGVLEDLGPSGPSEENFDMEAFTMEMEAYVPGFAHIPRGT  
IGDMMQKLSGQLSDARNKENLQFQSSGVQGQVPISPEPLQRPEMLKEETRSSAAAAADTQDEATGAEELLPGVD  
VLLEVFP TCSVEQAQWVLAKARGDLEEAVQMLVEGKEEGPAAWEGPNQDLPRRLRGFPQKDELKSFILQKYMVDS  
A

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**FIGURE 3049**

GCGCTAGCGGCGGACCCGGCTGGGCAGTTCCTTCCCCAGAAGGAGAGATTCTCTGCCATGGAGTCCTACGATGT  
GATCGCCAACCAGCCTGTCGTGATCGACAACGGATCCGGTGTGATTAAAGCTGGTTTTGCTGGTGATCAGATCCC  
CAAATACTGCTTTCCAAACTATGTGGGCCGACCCAAGCACGTTCTGTGCATGGCAGGAGCCCTTGAAGGCGACAT  
CTTCATTGGCCCCAAAGCTGAGGAGCACCGAGGGCTGCTTTCAATCCGCTATCCCATGGAGCATGGCATCGTCAA  
GGATTGGAACGACATGGAACGCATTGGCAATATGTCTATTCTAAGGACCAGCTGCAGACTTTCTCAGAGGAGCA  
TCCTGTGCTCCTGACTGAGGCGCCTTTAAACCCACGAAAAACCGGAACGAGCTGCCGAAGTTTTCTTCGAGAC  
CTTCAATGTGCCGCTCTTTTCATCTCCATGCAAGCTGTACTCAGCCTTTACGCTACAGGCAGGACCACAGGGGT  
GGTGTGGATTCTGGGGATGGAGTCACCCATGTGTGCCCATCTATGAGGGCTTTGCCATGCCCCACTCCATCAT  
GCGCATCGACATCGCGGGCCGGGACGTCTCTCGCTTCTGCGCTCTACCTGCGTAAGGAGGGCTACGACTTCCA  
CTCATCTCTGAGTTTGAGATTGTCAAGGCCATAAAAGAAAGAGCCTGTTACCTATCCATAAACCCCCAAAAGGA  
TGAGACGCTAGAGACAGAGAAAGCTCAGTACTACCTGCCTGATGGCAGCACCATTGAGATTGGTCTTCCCCGATT  
CCGGGCCCCCTGAGTTGCTCTTCAGGCCAGATTTGATTGGAGAGGAGAGTGAAGGCATCCACGAGGTCTTGGTGT  
CGCCATTGAGAGTCAAGCATGACCTGCGGCGCACGCTTTTCTTAACATTGTCTCTCAGGAGGCTCTACCT  
GTTCAAAGGTTTTGGTGACAGGCTCCTGAGTGAAGTGAAGAACTAGCTCCAAAAGATGTGAAGATCAGGATATC  
TGCACCTCAGGAGAGACTGTATTCCACGTGGATTGGGGCTCCATCCTTGCTCCCTGGACACCTTTAAGAAGAT  
GTGGGTCTCCAAAAGGAATATGAGGAAGACGGTGCCCGATCCATCCACAGAAAAACCTTCTAATGTGGGACAT  
CATCTTACCTCTCTCTGAAGTTAACTCCACTTTAAACTCGCTTCTTGAGTCGGAGTGTGTCGAGGAACTGC  
CTGTGTGTGAGTGCCTGTGTGGATATGAGTGTGTGTGCACATGCGAGTGCCGTGTGGCCCTGGGACCCTGGGCCC  
AGAAAGGACGATGAAGTACCTGCAGTGGTGATGGCTGAGGCCTGGGGTTGACCACTAACTGGCTCCTGACAGGG  
AAGAGCGCTGGCAGAGGCTGTGCTCCCTCCTCAGGTGGCCTCTGGCTGGCTGTGGGGGACTCCGTTTACTACCAC  
AGGGAGACAGAGGGAGGTAAGCCATCCCCCGGGAGACCTTGCTGTGACCATCCTAGGCTGGGCTGGCCCCACCC  
TCACCCCCACCCCCAGGGTGCCCTGAGGCCCCAGGCAGCTGTGCTCCACTATCGATGCCTCCTGACTGCACAC  
TGAGGACTGGGACTGGGGTTGAGTTCTGTCTGGTTTTGTTGCCATTTTGGTTTGGGAGGCTGGAAAAGCACCCCA  
AGAGCTATTACAGAGACTGGAGTCAGGAGAGAGCAGGAGGCCCTCATGTTTACCAGGGAACAGGACCACACCGGC  
CACTGGAGGAGGGCAGGAGCAGTCTCACTCTGAATGGCTGCAGAGTTAATGTTCCAGCCCAGTCCCTTTTCGG  
GGGCTTGGGAGAGTTTAAGGCACCTGCTGGTTCCAGGACCTCGCTTTCCATCTGTCTTGTGCAATGCCATCT  
TCAAACCGTTTTATTTATTGAAGTGTTTGTTCAGTTAGGGGCTGGAGAGAGGGAGCTTGCTGCCTCCTGCCCTGC  
TACACTAATGTTTACAGCACCTAAGCTTAGCCTCCAGGGCCCCACCTCTCCAGCTGATGGTGAGCTGACAGTGT  
CCACAGGTTCCAGGACCAATTTGAGATTGGAAGCTACACTCAAAGACACTCCCACCAGGCTCTTTCTCCCTTTTCC  
TCTTGCTCACTGCCCTGGAATCAACAGGCTGGTTGCTGGTTAGATTTTCTGAAACAGGAGGTAATAATTTTCTTT  
GGCAGAGGCCCCTAAGCAAGGGAGGGGTGTTGGAGAGCCAGTGCCCTTAAGACTGGAGAAAGCTGCAATTTACCA  
AGTTGCCTTTTGCCACTGTAGCTGACCAGGGGACTAGGTTGTAGAGGTGGGAAGGCCCCCTCTGGGCTGATCTTG  
TGCCATTCTTGACCTTGACCTGCTTGGTTAAGGAGGGAGTGGGCCAGACCAGAGTGCCAGGAGCTAATGGAGCC  
AGGCCTGACTCCTAGGAGTGGTCCAAAGGCCTTCAGCCTAGATGGTGAAAGCTGGGGCCAGCCTGTCTTACCG  
GCACCTCACCTGTGACACCAAGACCCACCCCAATCCAGACTTCACACAGTATTCTCCCCACGCCGTCTATG  
ACCAAAGGCCCCTGCCAGGTGTGGGCCACAGCAGCAGGTATGTGTGAAAGCAACGTAGCGCCCCGCGGACTGCAG  
TGCGCTTAACCAACTCACCTCCCTTCTCTTAGCCCAAGCCTGTCCCTCGCACAGCCTCGCACAAACCACATTGCC  
TGGTGGGGCCAGTGTACTGAAATAAAGTCGTTCCGATAGACACGTC

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**FIGURE 3050**

MESYDVIANQPVIDNGSGVIKAGFAGDQIPKYCFPNYVGRPKHVRVMAGALEGDIFIGPKAEHRGLLSIRYPM  
EHGIVKDWNEMERIWQYVYSKDQLQTFSEHPVLLTEAPLNPRKNRERAAEVFFETFNVPALFISMQAVLSLYAT  
GRTTGVLDSGDGVTHAVPIYEGFAMPHSIMRIDIAGRDVSRLRLYLRLKEGYDFHSSSEFEIVKAIKERACYLS  
INPQKDETLETEKAQYYLPDGSTIEIGPSRFRAPPELLFRPDLIGEESIGIHEVLVFAIQKSDMDLRRTLFSNIVL  
SGGSTLFKGFGRLLSEVKKLAPKDVKIRISAPQERLYSTWIGGSILASLDTFKKMWVSKKEYEEDGARSIMHKT  
F

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## FIGURE 3051A

CGCCGTGCGCAGGCGCGGAGCTAGACCTCGCTGCAGCCCCATCGCCTCGGGGAGTCTCACCCACCGAGTCCGCC  
CGCTGGCCCCGTAGTGCTCTCCCCGTGTTTGGCTCTCCAGTTCCCCCAGTGCCCTACGCACCCCGATGG  
CGGAGCTGCGGCCTAGCGGCGCCCCCGGCCCCACCGCGCCCCCGGCCCTGGCCCGACTGCCCCCGGCCTTCG  
CTTCGCTCTTTCCCCGGGACTGCACGCCATCTACGGAGAGTGCCGCGCCTTTACCCTGACCAGCCGAACCCGC  
TCCAGGTTACCCTATCGTCAAGTACTGGTTGGGTGGCCAGACCCCTTGGACTATGTTAGCATGTACAGGAATG  
TGGGGAGCCCTTCTGCTAACATCCCCGAGCACTGGCACTACATCAGCTTCGGCCTGAGTGATCTCTATGGTGACA  
ACAGAGTCCATGAGTTTACAGGAACAGATGGACCTAGTGGTTTTGGCTTTGAGTTGACCTTTTCGTCTGAAGAGAG  
AAACTGGGGAGTCTGCCCCACCAACATGGCCCGCAGAGTTAATGCAGGGCTTGGCACGATACGTGTTCCAGTCAG  
AGAACACCTTCTGCACTGGGGACCATGTGTCTGGCACAGCCCTTTGGATAACAGTGAGTCAAGAATTACGCACA  
TGCTGCTGACAGAGGACCCACAGATGCAGCCCGTGCAGACACCCCTTTGGGGTAGTTACCTTCTCCAGATCGTTG  
GTGTCTGCACTGAAGAGCTACACTCAGCCCGCAGTGGAAACGGGCAGGGCATCCTGGAGCTGCTGCGGACAGTGC  
CTATTGCTGGCGGCCCTGGCTGATAACTGACATGCGGAGGGGAGAGACCATATTTGAGATCGATCCACACCTGC  
AAGAGAGAGTTGACAAAGGCATCGAGACAGATGGCTCCAACCTGAGTGGTGTGAGTGCCAAGTGTGCCTGGGATG  
ACCTGAGCCGGCCCCCGAGSATGACGAGGACAGCCGGAGCATCTGCATCGGCACACAGCCCCGGCGACTCTCTG  
GCAAAGACACAGAGCAGATCCGGGAGACCCTGAGGAGAGGACTCGAGATCAACAGCAAACCTGTCTCTCCACCAA  
TCAACCCTCAGCGGCAGAATGGCCTCGCCACGACCGGGCCCCGAGCCGCAAAGACAGCCTGGAAAGTGACAGCT  
CCACGGCCATCATTCCCCATGAGCTGATTGCGACGCGGCAGCTTGAGAGCGTACATCTGAAATTCAACCAGGAGT  
CCGGAGCCCTCATTCTCTCTGCTAAGGGGCAGGCTCCTGCATGGACGGCACTTTACATATAAAAGTATACAG  
GTGACATGGCCATCAGCTTTGTCTCCACGGGAGTGGAAAGCGCCTTTGCCACTGAGGAGCATCCTTACGCGGCTC  
ATGGACCCTGGTTACAAATTCTGTTGACCGAAGAGTTTGTAGAGAAAATGTTGGAGGATTTAGAAGATTTGACTT  
CTCCAGAGGAATTCAAACTTCCCAAAGAGTACAGCTGGCCTGAAAAGAAGCTGAAGGTCTCCATCCTGCCTGACG  
TGGTGTTCGACAGTCCGCTACACTAGCCTGGGCTGGGCCCTGCAGGGGCCAGCAGGGAGCCAGCTGCTCCCCAG  
TGACTTCCAGTGTAACAGTTGTGTCAACGAGATCTCCACAAATAAAAGGACAAGTGTGAGGAAGACTGCGCAGTG  
CCACCCCGCAGCCAGTGGGGTGCCATGCACAGGCCACAGGCCCTCCACCTCACCTCCAGCTCAGGGGCCGCACC  
CCGCGCTGGCTAAGCCTTGTGACCCATCAGGCCAGTGAGTGGGCAAATGCGGACCCTCCCTGCCTGCAGCCTGC  
ACAGATTCTGGTTTGTAGGTTTGAATCTGGACCCCTGGCTGTGCCCCCTAGGTGGAGACAGCCCTCTTTCTCACCTAC  
CCCCTGCCGCACAGCCAGCAGGAGGGAGGCGGACAGCCAGATGCAGAGCGAGTGGATGCACTTCCCAGCTCATC  
TCTGGAAGCCTTTGCTACTCAAGCTCCTCTGGCCGCGGAACAATTCTCTGATCATGTTTGGTTTTCTTCTCTCT  
TATTTTATTTTGTAGAAACCGGGTGGTATTTTATTTGCTCTGCAAAGATGTCCAGAAGCCATGTATATAATGTTTT  
TTAAACAGAACTTCAATCCCCGTGAACTTTCGCATTCTCTGACAGAGGCCCTAGGGCTGTATCTCTCCCTGGGCT  
GCCACCAGAGAAGGTGCTTGGTGTTCGCCCTGCCAGCCAGAGCCCTGGAGGAGCCGGCTGCACAGAGAGGCTTTT  
CTTCCCAGCTGGGCCTGATGGAGCCCGGGGAGGGGAGAGTAGAGACACTCCCTTGTGCAGCTTTGAGCCTAGT  
TTAGCTGGGGCCAGGGAGGGGTGCTACTGTTTTCAAGTGAATGGGTCTCAAAGACTTGGTGACCCAGCCTCAT  
CTTCTAGGCCTTTTCCATCCAACAGGCCCTACCTGGGAGAGGGTGAGGTTTCAACATCACACACCATCCCCTCAT  
GTCATTGAGGGCCTGGGTCTCCAGCTCTGTAACAGTCTGTGCCATTCTCCTCAGTCCCTGGGCTCCAGCCTT  
CAGGCTGTAGGGCTGCCCTTACTAAAATTGAAAAATCCACCTCTTAACATCTCTTCACTTTGGTTTTGCTAACAC  
TGCTCTCTGCTGCCCTCCCATCCTCCCTGTATCCATTATGCCCTATCTTTCATTCTCCACTCCTAATCCCTCTC  
CTTTCTGGCATCCTGGCCTCTCGTGGTCTCAGCCCTCACCCTCAGTACTGCAGATCTCACAGTTTGCCTTCCA  
GAAGCCAGCCTATCTCTAGCCCATGGTTTTGGAGTTCTCTCGGGTTATCTCCACGCCTGACCTGGAACAGCA  
AGCCCCCTTCTGCTTCTTACCCCCAATCTAGGGATGGGACTGTTACAATACTTCAAGTCACTCTTTACACC  
TCTTCAAAGCAAAGTATGACAATGCAGGGCTCCTCATTGTCTCCATCTGCCCTGCTGCACACAGGCACCAG  
CAGGGATGCCACAGGAGTGCCACAGGGTGCAGGACTCCACTGATGAGAGATCCAGCCAAAGAGCTGCCCCCAGG  
GGTATGAGGGCACCAGCTGGGTCTCCAGGGAGCAGGAGTTGGACCTCCATGGAGCCACTAGGCCTGGCCTCTCTC  
TACACATCCCCAGGGCTATCTGGTTAATTCATCAAGCTCAGAGTTAAAAGGCATATCAGCCTGGAGTATTTGGG  
AGAGACTGGCTGCAGATCCCCGCCAGCCAAGATGCAAGCCACTCGGGACCTGATGTGCGCAGCTGTGCCTCTACT  
GCCCTGAGGACTTACCAGAGGGAGCCCTACTGGCCTTCCCCACCACAGCAGCCCTGCCTGTGAAGCTCTTGTTT  
CTGACATTTACAGGCAGAGAGGTGCCATCAGTTGCGCTCCATTCTTGGCACCATGACCAGCCTCTCCCTGAAC  
TCTCTCTGTGCTGGGACCTGCCTGAGGGCTCCCTGCTGCAGTTGCGCGTACTTCCATCTGCTGGGTGCCTCCATC

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**FIGURE 3051B**

GTGGTTGGGTGGGGATGGGGCATTCTTGAGCTAAGCTTTGTCATTAGTTTGTGAAGCACCTGGTCAGCAACCT  
GCCCCAGACCTGGAGGGTCTTTGTGGACTGAAGGTAGACACCAGCCAGCATGGTGGCCCTGTTCTGGGGGAGCAG  
GGTAAGGCAGGAGGAAGTGGGTGAGCTCCGAGATGATGAGCACATGAAGCCTGTGGCCCTTCGTACCTGCAATA  
TGTCAGGAGCCTCACGCTCACCCAAGATCCTGCAGGGGCCAGGCTCCATCTCACTGGCTCTGAGGGCAGGACAGG  
GTATCACACATTCTCACCAGGCCTCCTTTCCCTATGGGCATTGGTGCCTCCAGAGGTTTCTTGGGCTGCTGGCT  
GGTGAGAGAGGACCCTTAAAGAAGATCAAGCCAAGCTGACCTTGGACCCTGTCCAGCACAGCTTCTGGCACAGGA  
TGCTTGGTGAATGTACCCTTTCTTTCCCTCCCTGCAGCTCTGAGGGAGCCCCTGACCTGTAGTGGGTGGAGGAG  
GTAAGGGGCCTCCCTCCCTAAATCTGCCTCTTCTGCAAGCTACTTGGAGACTTGCCTAGTTGTACCCACCCCTCC  
AGGTCCCTGGTGCTAGAGCTTCTGAGAAGGGCCTTTCCCTTTCCCTCTTGCCTGCTATATAAGGCAGGCTCCTGT  
GGCTCTGCTGGCTCAGTGTGGGCTGCAGGAGGACTGCAGACTCAGCTGCAATTCTGAGGGGGGTTTGGGAGGCTT  
GTGCGAGGTCTCAGGCCTGTGTGGGAGCTGGTGCCTCTTCCCTGCCCGTATCTTTCTCTTCCAAGGGCAGTGCTC  
CAAGGCAGGGACTGGAGAAGCCAAGGGGAGAGTCTAAAAGGGCTAGAGCATTTTTAAAAATAGACACAGGGTCTT  
GGGACTGGGGTTTCGGATTGAGTTGCAAGCAGGGAGAAAACCTGAAGGTCGGTGCCCTATGGGGCTGACCAGTA  
GAGAATTTCTTTACTGTATTTTGTGTCTGGTCTTCCCTTTCTGGCTTCTAGGACATCCATGCCAGGTGAGGTG  
CCTGGGTCCCTGTTACAAGTCAGGAGCCCTGTAGGGAGACCCCTCCTTTGTACAAGTACCTGAATGCTGCGACA  
AGCAGATTTTGTAAAATTTTATATTAGTTTTTAATGTCAGTGGCGACTCGGTTCTTGGGGCTGCAGCCAGCCTG  
GGACTTTTGTAGAATTTTGGGTGACTCACTTAGATGTCGTTTCCCTTCTTGCCCCCTCTTCTCTCTGTAATCT  
AAGTGCATTAAACATCTTTGCAG

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**FIGURE 3052**

MAELRPSGAPGPTAPPAPGPTAPPAPAFASLFPPGLHAIYGECCRLYPDQPNPLQVTAIVKYWLGGPDPLDYVSMYR  
NVGSPSANIPEHWHYISFGLSDLYGDNRVHEFTGTDGPSGFGFELTFRKRETGESAPPTWPAELMQGLARYVFQ  
SENTFCSGDHVSWHSPLDNSESRIQHMLLTEDPQMOPVQTPFGVVTFLQIVGVCTEELHSAQQWNGQGILELLRT  
VPIAGGPWLITDMRRGETIFEIDPHLQERVVDKGIETDGSNLGVSAKCAWDDLSRPPEDDEDSRSICIGTQPRRL  
SGKDTEQIRETLRRGLEINSKPVLPPINPQRQNGLAHDRAPSRKDSLESSTAIIPHELIRTRQLESVHLKFNQ  
ESGALIPLCLRGRLHGRHFTYKSITGDMAITFVSTGVEGAFATEEHPYAAHGPWLQILLTEEFVEKMLEDLEDL  
TSPEEFKLPKEYSWPEKKLKVSIPLDVVFDSPH

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**FIGURE 3053**

AGCAGCGGCGGGGGCCCGAGGGATTCTGAAGGAAGATTTCCATTAGGTAATTTGTTTAAATCAGTGCAAGCGAAAT  
TAAGGGAAAATGGATGTAGAAAATGAGCAGATACTGAATGTAAACCTGCAGATCCTGATAACTTAAGTGACTCT  
CTCTTTTCCGGTGATGAAGAAAATGCTGGGACTGAGGAAATAAAGAATGAAATAAATGGAAATTGGATTTCAGCA  
TCCTCCATTAACGAAGCTAGAATTAATGCCAAGGCAAAAAGGCGACTAAGGAAAACTCATCCCGGGACTCTGGC  
AGAGGCGATTCCGGTCAGCGACAGTGGGAGTGACGCCCTTAGAAGTGGATTAAGTGTGCCAACCAAGTCCAAAGGGA  
AGGTTGCTGGATAGGCGATCCAGATCTGGGAAAGGAAGGGGACTACCAAGAAAGGTGGTGCAGGAGGCAAAGGT  
GTCTGGGTACACCTGGACAGGTGTATGATGTGGAGGAGGTGGATGTGAAAGATCCTAACTATGATGATGACCAG  
GAGAACTGTGTTTATGAACTGTAGTTTTGCCTTTGGATGAAAGGGCATTGAGAAGACTTTAACACCAATCATA  
CAGGAATATTTTGAGCATGGAGATACTAATGAAGTTGCGGAAATGTTAAGAGATTTAAATCTTGGTGAATGAAA  
AGTGGAGTACCAGTGTGGCAGTATCCTTAGCATTGGAGGGGAAGGCTAGTCATAGAGAGATGACATCTAAGCTT  
CTTTCTGACCTTTGTGGGACAGTAATGAGCACAACCTGATGTGAAAAATCATTGATAAATTGTTGAAAGATCTA  
CCTGAATTAGCACTGGATACTCCTAGAGCACCACAGTTGGTGGGCCAGTTTATTGCTAGAGCTGTGGAGATGGA  
ATTTTATGTAATACCTATATGATAGTTACAAAGGAAGTGTAGATTGTGTGCAGGCTAGAGCTGCTCTGGATAAG  
GCTACCGTGCTTCTGAGTATGTCTAAAGGTGGAAGCGTAAAGATAGTGTGTGGGGCTCTGGAGGTGGGCAGCAA  
TCTGTCAATCACCTTGTTAAAGAGATTGATATGCTGCTGAAAGAATATTTACTCTCTGGAGACATATCTGAAGCT  
GAACATTGCCTTAAGGAAGTGAAGTACCTCATTTTACCATTGAGCTTGTATATGAAGCTATTATAATGGTTTTA  
GAGTCAACTGGAGAAAGTACATTTAAGATGATTTTGGATTTATTAAAGTCCCTTTGGAAGTCTTCTACCATTACT  
GTAGACCAAATGAAAAGAGGTTATGAGAGAAATTACAATGAAATCCGGACATTAATCTGGATGTCCACATTCA  
TACTCTGTGCTGGAGCGGTTGTAGAAGAATGTTTTCAGGCTGGAATAATTTCCAAACAACCTCAGAGATCTTTGT  
CCTTCAAGGGGCAGAAAGCGTTTTGTAAGCGAAGGAGATGGAGGTCGTCTTAAACCAGAGAGCTACTGAATATAA  
GAACTCTTGCACTCTTAGATGTTATAAAAAATATATATCTGAATTGTAAGAGTTGTTAGCACAAAGTTTTTTTTTT  
TTTTTTTTTAAGCACTTGTTTTGGGTACAAGGCATTTCTGACATTTT

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**FIGURE 3054**

MDVENEQILNVNPADPDNLSDSLFSGDEENAGTEEIKNEINGNWI  
SASSINEARINAKAKRRLRKNSRDSGRGD  
SVSDSGSDALRSGLTVPTSPKGRLLDRRSRSGKGRGLPKKGAGGKGVWGT  
PGQVYDVEEVDVKDPNYDDQENC  
VYETVVLPLDERAFEKTLTPIIQEYFEHGDNEVAEMLRDLNLGEMKSGVP  
VLAVSLALEGKASHREMTSKLLSD  
LCGIVMSTTDVEKSFDKLLKDLPELALDTPRAPQLVGQFIARAVGDGIL  
CNTYIDSYKGTVDVCVQARAALDKATV  
LLSMSKGGKRKDSVWGSGGGQQSVNHLVKEIDMLLKEYLLSGDISEA  
EHLKELEVPHFHHELVYEAIMVLEST  
GESTFKMILDLLKSLWKSSTITVDQMKRGYERIYNEIPDINLDVPHSY  
SVLERFVEECFQAGIISKQLRDLCP  
SRGRKRFVSEGDGGRLKPESY



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**FIGURE 3055**

ATGCCTCCAAAGGTGACTTCAGAGCTGCTTCGGCAGCTGAGACAAGCCATGAGGAACTCTGAGTATGTGACCGAA  
CCGATCCAGGCCTACATCATCCCATCGGGAGATGCTCATCAGAGTGAGTATATTGCTCCATGTGACTGTCGGCGG  
GCTTTTGTCTCTGGATTTCGATGGCTCTGCGGGCACAGCCATCATCAGAAGAGCATGCAGCCATGTGGACTGAC  
GGGCGCTACTTTCTCCAGGCTGCCAAGCAAATGGACAGCAACTGGACACTTATGAAGATGGGTCTGAAGGACACA  
CCAACTCAGGAAGACTGGCTGGTGAGTGTGCTTCTGAAGGATCCAGGGTTGGTGTGGACCCCTTGATCATTCTT  
ACAGATTATTGGAAGAAAATGGCCAAAGTTCTGAGAAGTGCCGGCCATCACCTCATTCTGTCAAGGAGAACCTC  
GTTGACAAAATCTGGACAGACCGTCCTGAGCGCCCTTGCAAGCCTCTCCTCACACTGGGCTGGATTACACAGGC  
ATCTCTGGAAGGACAAGGTTGCAGACCTTCGGTTGAAAATGGCTGAGAGGAACGTCAATGTGGTTTGTGGTCACT  
GCCTTGATGAGATTGCGTGGCTATTTAATCTCCGAGGATCAGATGTGGAGCACAATCCAGTATTTTTCTCCTAC  
GCAATCATAGGACTAGAGACGATCATGCTCTTCATTGATGGTGACCGCATAGACGCCCCAGTGTGAAGGAGCAC  
CTGCTTCTTGACTTGGGTCTGGAAGCCGAATACAGGATCCAGGTGCATCCCTACAAGTCCATCCTGAGCGAGCTC  
AAGGCCCTGTGTGCTGACCTCTCCCCAAGGGAGAAGGTGTGGGTCAAGTACAAGGCCAGCTATGCTGTGAGCGAG  
ACCATCCCCAAGGACCACCGCTGCTGTATGCCTTACACCCCCATCTGCATCGCCAAAGCTGTGAAGAATTGAGCT  
GAGTCAGAAGGCATGAGGCCGGCTCACATTAAAGATGCTGTTGCTCTCTGTGAACCTCTTTAACTGGCTGGAGAAA  
GAGGTTCCCAAAGGTGGTGTGACAGAGATCTCAGCTGCTGACAAAGCTGAGGAGTTTCGCAGGCAACAGGCAGAC  
TTTGTGGACCTGAGCTTCCCAACAATTTCCAGTACGGGACCCAACGGCGCCATCATTCACTACGCGCCAGTCCCT  
GAGACGAATAGGACCTTGTCCCTGGATGAGGTGTACCTTATTGACTCGGGTGCTCAATACAAGGATGGCACCACA  
GATGTGACGCGGACAATGCATTTTGGGACCCCTACAGCCTACGAGAAGGAATGCTTCACATATGTCCTCAAGGGC  
CACATAGCTGTGAGTGCAGCCGTTTTCCCGACTGGAACCAAGGTACCTTCTTGACTCCTTTGCCCGTTACAGCT  
TTATGGGATTAGGCCCTAGATTACTTGCACGGGACTGGACATGGTGTGGGTCTTTTTTGAATGTCCATGAGGGT  
CCTTGCGGCATCAGTTACAAAACATTCTCTGATGAGCCCTTGGAGGCAGGCATGATTGTCACTGATGAGCCCGG  
TACTATGAAGATGGGGCTTTTGAATTTCGATTGAGAATGTGTCTTGTGGTTCTGTGAAGACCAAGTATAAT  
TTTAATAACCGGGGAAGCCTGACCTTTGAACCTCTAACATTGGTTCCAATTCAGACCAAAATGATAGATGTGGAT  
TCTCTTACAGACAAAGAGTGGACTGGCTCAACAATTACCACCTGACCTGCAGGGATGTGATTGGGAAGGAATTG  
CAGAAACAGGGCCGCCAGGAAGCTCTCGAGTGGCTCATCAGAGAGACGCAACCCATCTCCAAACAGCATTAA

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**FIGURE 3056**

MPPKVTSELLRQLRQAMRNSEYVTEPIQAYIIPSGDAHQSEYIAPCDCRRAFVSGFDGSAGTAIITEEHAAMWTD  
GRYFLQAAKQMDSNWILMKMGLKDTPTQEDWLVSVLPEGSRVGVDPLIIPTDYWKMAKVLRSAGHHLIPVKENL  
VDKIWTD RPERPCKPLLTGLDYGISWKDKVADLRLKMAERNVMWFVVTALDEIAWLFNLRGSDVEHNPVFFSY  
AIIGLETIMLFIDGDRIDAPSVKEHLLDLGLEAEYRIQVHPYKSILSELKALCADLSPREKVWVSDKASYAVSE  
TIPKDHRCMPYTPICIAKAVKNSAESEGMRAHIKDAVALCELFNWLEKEVPKGGVTEISAADKAEFFRRQQAD  
FVDLSFPTISSTGPNGAIHYAPVPETNRTLSLDEVYLIDSGAQYKDGTDTVTRTMHFGTPTAYEKECFTYVLKG  
HIAVSAAVFPTGTGKHLDSFARSALWDSGLDYLHGTGHGVGSFLNVHEGPCGISYKTFSDPLEAGMIVTDEPG  
YYEDGAFGIRIENVVLVVPVKTKYNFNNGSLTFEPLTLVPIQTKMIDVDSLTDKECDWLNNYHLTCRDVIGKEL  
QKQGRQEALWLIRETQPI SKQH

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**FIGURE 3057**

CCGTCCAGAGACTGCTGAACCCCTATCCATCTGCTACCACCACCCACTCTGGACACAGAACATCCAGTCATGGAA  
AAAAATGAGCTGGTTTCAGAAGGCCAAACTGGCTGAGCAGGCTGAGCAATATGATAACATGGCAGCCTGCATGAAG  
TCTGTAAGTGAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTTGCTTATAAAAAATGTTGTA  
GGAGCCCGTAGGTTCATCTTGGAGGGTCATCTCAAGTATTGAACAAAAGACGGAAGGTGTTGAGAAAAACAGCAG  
ATGGCTCGAGAATACAGAGAGAAAATTGAGATGGAGCTAAGAGATATCTCCAATGATGTACTATCTCTTTGGAA  
AAGTTCTTGATCTCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTGAAAATGAAAGGAGATTACTACCGT  
TACTTGGCTGAGGTTGCCGCTGGTGATGGCAAGAAAGGGATTGTGGGTCTGAGTCACAACAAGCATAACCAAGAAGCT  
TTTGAAATCAGCAAAAAGGAAATGCAACCAACACATACTGTCAGACTGGGTCTGGCCCTTAACCTCTCTGTTCT  
ATTATGAGATTCTGAACCCCCAGATAAAGTCTGCTCTCTTGCAAAGATGGCTTTTGATGAAGGCATTGCTGAAC  
TTGATACATTAAATGAAGAGTCATACAAAGACAGCAGCTAATAATGCAATTACCGAGAGACAACCTTGACATTGT  
GGACACTGGATACCCAAGGAGACAAAGCTGAAGCAGGAGAAAGAGGGGAAAATTAACCGGCCTTCCAACCTTTGT  
CTGCCTCTTTCTAAAATTTACACAGTAGACCATTGTGCATCCATGGTGTCCACAAAATGGTTTTTTGTTTACAAT  
TTATGGCAGATGTGTGTTACTTTTATTTGAATTTCTATATTTCCCATGTGGTTTTTATGTTTAAATATTAGGGGAG  
TAGAGCCAGTTAACATTTAGGGAGTTATCTGTTTTCATCTTGAGGTGGCCAATATGGGGATGTGGAATTTTATA  
CAAGTT

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**FIGURE 3058A**

AACATTTTTGAAAGATCACTCAGCTTTAACACACCTTGGCTGGGTCTGGATAAAAAAAGTGAGCACTGCAAAT  
TTCTAGAAGAAAACATCAGGAGAAGAAAGAGAGAGGGGGATTTATTCAAAGTTGTTTCCAATTCCTTCAAAACCT  
CAAACCAGGTGGCTATGGTATGGATGTAACCAAGAAAAACAAACGAGATGGAAGTGAAGTCACTGAGAGAATTGT  
CACTGAAACAGTAACCACAAGACTTACATCCTTACCACCAAAAGGCGGGACCAGCAATGGCTATGCTAAAAACAGC  
CTCTCTTGGTGGAGGGAGCCGGCTGGAGAAACAAAGCCTGACTCATGGCAGCAGCGGTACATAAACTCAACTGG  
AAGCACACGAGGCCATGCCTCCACCTCTAGTTACAGGAGGGCTCACTCACCTGCCTCCACTCTGCCAACTCCCC  
AGGCTCAACCTTTGAAAGGAAAACCTACGTTACCCGCCATGCGTATGAAGGGAGCTCCAGTGGCAACTCTTCTCC  
GGAGTACCCTCGGAAGGAATTTGCATCTTCTTCAACCAGAGGACGGAGTCAAACACGAGAGAGTGAAATTCGAGT  
TCGACTGCAGAGTGCCTCCCATCCACCCGATGGACAGAATTGGATGATGTTAAGCGTTTGCTCAAGGGGAGTCG  
ATCGGCAAGTGTGAGCCCCACCCGGAATTCTTCCAACACACTCCCCATCCCCAAGAAAGGCACTGTGGAGACCAA  
AATGTGACAGCGAGCTCCAGTCGGTGTGAGGCACCTACGATGCAACGATCCTGGATGCCAACCTTCCCTCCCA  
TGTGTGGTCTCCACCTGCCCCGCGGGTCTTCCATGGGGACCTATCACAACAACATGACAACCCAGAGCTCATC  
CCTCTCAACACCAATGCCTACTCTGCGGGATCAGTCTTCGGAGTTCCAAACAACATGGCGTCTGCTCACCAC  
TTTGCACCCTGGACTCAGCACATCTCTCAGTGTTTGGCATGCAGAACATCTGGCCCCAGCTTGACCACCT  
GTCCCATGGCACCACCACCACTTCCACAGCATATGGGGTGAAGAAAAACATGCCCCAGAGTCTGCGGTGTGAA  
CACTGGCGTTTTCCACCTCCGCCGCTGCACCACAAGTGTGCAGAGCGATGACCTTTTGACAAGGACTGCAAGTT  
CCTGATCCTAGAGAAAGACAACACACCTGCCAAGAAGGAGATGGAGTGTCTCATCATGACCAAGGACAGCGGAA  
GGTCTTTACAGCTCCCTGCCAGCATCGCTGCAACTCTTTTTTCAAGACACCCTAAAAAAGAAAAGCAAGC  
TGCTTACAATGTGACTCAGGCCTAAAAGCCGAAGCTAATGGAGACCTGAAGACTGTGTCCACAAGGGCAAGAC  
CACCCTGCAGATATCCACAGCTACGGCAGCAGTGGTGGTGGTGGCAGTGGAGGAGGTGGCGGTGTTGGTGGCGC  
TGCGGGCGGGCCCTTGGGGACCAGCGCCAGCCTGGTGCCCTGCGGCTCTGCTGCAGTGGTGAAGTGGCTGCT  
GGGCTGCTGCTCACTGGCTGCTACTCTGGGGTCTCTTTCGGCTCATTGCTCTGGCGGAGGAGGTGAGGAA  
GCTGAAGGCGCTGTGGATGAGCTGGAGAGGATCAGGAGGAGCATACTGCCCTATGGGGACAGCATGGATAGAAT  
AGAAAAGGACCGCTCCAGGGCATGGCACC CGCGGGGAGCAGACCTGGACAAAATTGGGCTGCACAGTGACAG  
CCAGGAGGAGCTCTGGATGTTCTGTGAGGAAGAAGCTAATGATGGAACAGGAAAATGGAATCTCCGAGGAAGCCC  
TGGCCCTAAAGGTGACATGGGAAGTCCAGGCCCTAAAGGAGATCGAGGGTTCCCTGGGACTCCAGGTATCCCTGG  
GCCCTTGGGGCCACCCAGGTCCACAAGGACCAAGGGTCAAAAAGGCAGCGTGGGAGATCCTGGCATGGAAGGCC  
CATGGGCCAGAGAGGGCGAGAAGGCCCATGGGACCTCGTGGTGAGGCAGGGCCTCCTGGATCTGGAGAGAAAGG  
GGAAAGAGGGGTGCTGGTGAACCAGGTCTCATGGCCACCTGGTGTCCAGGTTCTGTGGGTCCCAAAGGTTT  
CAGCGGCTCTCTGGGCCACAGGGCCCTCCAGGTCTGTAGGTCTCCAAGGGCTCCGAGGTGAAGTAGGACTTCC  
TGGTGTCAAAGGTGACAAAGGACCAATGGGACCACCAGGACCCAAAGGTGACCAGGGTGAGAAAGGACCTCGAGG  
CCTCACAGGCGAGCCTGGCATGAGAGGTTTGCTGTGCTGTTGGTGAGCCCGGGGCTAAAGGAGCAATGGGTCC  
TGCTGGCCCAGACGGACACCAAGGCCCAAGAGGTGAACAAGGTCTTACTGGGATGCCTGGAATCCGTGGCCCACC  
AGGACCTTCTGGAGACCCAGGAAAGCCAGGTCTCACAGGACCCACAGGGACCTCAGGGACTTCCCGGTACCCCTGG  
CCGACCAGGAATAAAAGGTGAACCAGGAGCTCCAGGCAAGATCGTGACTTCGGAGGGGTATCGATGCTCACTGT  
CCCAGGCCCCCAGGACCTCCTGGAGCCATGGGACCCCCAGGACCTCCAGGTGCCCCAGGCCCCTGCCGGCCACG  
TGGTCTCCCAGGACATCAAGAAGTTCTTAATTTACAAGGTCCCCCAGGCCACCCGGGCCACGCGGGCCACCAGG  
GCCTTCCATTCCAGGCCACCAGGACCCCGAGGCCACCAGGGGAGGGTTTGCCAGGCCACCAGGCCACCAGG  
ATCGTTCTGTCCAACCTCAGAAACCTTCTCTCCGGCCCCCAGGCCACCTGGCCCCCAGGTCCCAAGGGAGA  
CCAAGGTCCCCCAGGCCCCAGAGGACACCAAGGCAGCAAGGCCCTCCAGGTTTCTCAACCTCAGGGTCCAGTTC  
TTTCGGACTCAACCTTCAGGGACCACCAGGCCACCTGGCCCCCAGGGACCCAAAGGTGACAAAGGTGATCCAGG  
TGTTCCAGGGGCTCTTGGCATTCTAGTGGTCTTCTGAAGGGGGATCATCAAGTACCATGTACGTGTCAGGCCC  
GCCAGGGCCCCCTGGGCCCCCTGGGCCTCCGGGCTCTATCAGCAGCTCTGGCCAGGAGATTACGAGTACATCTC  
TGAGTACATGCAGAGTGACAGTATTAGATCTTACCTATCCGGAGTTTCAAGGTCCCCCAGGCCACCTGGTCCCCC  
AGGACCTGTCAACCATCACAGGCGAGACTTTCGACTACTCAGAGCTGGCAAGCCACGTTGTGAGCTACTTACG  
GACTTCGGGGTACGGTGTGAGCTTGTCTCGTCTCCATCTCTTCTGAAGACATTCTGGCTGTGCTGCAGCGGGA  
TGACGTGCGTCACTACCTACGTCACTTGTATGGGCCCTCGGGTCCGCCAGGGCCACCAGGAGCCAGTGGAGA  
TGGGTCCCTCTGTCTTTGGACTATGCAGAGCTGAGTAGTCGCATTCTCAGCTACATGTGAGTTCTGGGATCAG

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**FIGURE 3058B**

CATTGGGCTTCCTGGTCCCCGGGGCCCCCTGGCTTGCCGGGAACCTCCTATGAGGAGCTCCTCTCCTTGCTGCG  
AGGGTCTGAATTCAGAGGCATCGTTGGACCCCCAGGTCCCCGGGTCCACCAGGGATCCCAGGCAATGTGTGGTC  
CAGCATCAGCGTGGAGGACCTCTCGTCTTACTTACATACTGCCGGCTTGTCATTATCCCAGGCCCTCCAGGACC  
TCCTGGTCCCCCAGGGCCTCGAGGGCCCCGGGTGTCTCAGGAGCCCTGGCAACCTATGCAGCTGAAAACAGCGA  
CAGCTTCCGGAGCGAGCTGATCAGCTACCTCACAAGTCCTGATGTGCGCAGCTTCATTGTTGGCCCCCAGGCC  
TCCTGGGCCGAGGGACCCCCCTGGGGACAGCCGCTCCTGTCCACGGATGCCTCCCACAGTCGGGGTAGCAGCTC  
CTCCTCACACAGCTCATCTGTGAGGCGGGCAGCTCCTACAGCTCTTCCATGAGCACAGGAGGAGGTGGTGCAGG  
CTCCCTGGGTGCAGGCGGTGCCTTTGGTGAAGCTGCAGGAGACAGGGGTCCCTATGGCACTGACATCGGCCCAGG  
CGGAGGCTATGGGGCAGCAGCAGAAGGCGGCATGTATGCTGGCAATGGCGGACTATTGGGAGCTGACTTTGCTGG  
AGATCTGGATTACAATGAGCTGGCTGTGAGGGTGTGAGAGCATGCAGCGTCAGGGCCTACTGCAAGGGATGGC  
CTACACTGTCCAGGGCCCCACAGGCCAGCTGGGGCCACAGGGGCCACCCGGCATCAGCAAGGTCTTCTCTGCCTA  
CAGCAACGTGACTGCGGACCTCATGGACTTCTTCCAACTTATGGAGCCATTCAAGGACCCCCCTGGGCAAAAAGG  
AGAGATGGGCACTCCAGGACCCAAAGGTGACAGGGGCCCTGCTGGGCCACCAGGTATCCTGGGCCACCTGGCCC  
TCGAGGACACAAGGGAGAAAAAGGAGACAAAGGTGACCAAGTCTATGCTGGGCGGAGAAGGAGAAGAAGTATTGC  
TGTC AAGCGTGAGCTAGCCATGGCAGGACAGCTCCTGGACCAGGTCTCATAATGCATGTGGCACTTAGGTCCAA  
GGTCTCCAGAGGGTGAAAGCTGGAGTCTGTCAATGTCTACTGAGACAGCACAGCCAACCTAGCTAGCAACATTT  
GTTTTAGTCTGAACAATATATACTTATAGAATTCAGTCAAAGATACACAATCTGAAACAGCTTCATGGGGTGGAC  
TCTAACAGTAGTTGCAATGTTTTAGAAATGAGACTTACTTCTCTGCTATCTAGATCTGAACTCCTTGGCTTCTTTA  
CTTAGTTCAAGCCCCAGCCTAGGAAAGCCAGTTACATAAAAGTTGGCTCAGGAGTCTTAGAGCTTACCTAAATA  
TGAGCCCAGAAAACGGAGGATGGGGGTGGGGCGCCTTCCTGGAGGTGACACTTGATGGGGGTGTGTTCTGGTTAC  
TGTTCTAAGGCTGTGCCATCAGCTCCTTCCTCCCTGTTTCATTCTGCATTCTCTAGTCAGTTGGCTAAGAAGTGA  
CTCTTGCAACTAAAAAATTAAGAAATTCATTCCCCCTCTAGGAGGTGATGATAGGGTTTCTAATGGTTATATGT  
ATATCACATTCCCATTTGCTTAGAAAGTCTGATTGTAGCTATGATTGTCCGTAGGCCCATACTAGAGTTTCATGGA  
TATGTTTACTGAACCAGGCCAGAGCAAACAGAAAAAGAGGTTGAGGGCAATGGACAAGGAAGGAATAAAGGGA  
GAAGAGGGAAAACAGAAAACCTGATGCTGGGGACACAGCATCAGCTCAAGACGTCACCCTCCATTCTGCACTCAG  
AAAATGGCACTTGGGGGACTGGGGCGAGTTGGTCTTTAACCACCTTTTCAATGTCTAAAAACATTTGTTTGTGGTC  
TATAAGATGAAACATCATTTCAATCGTAAAATTTCCCATTAAGAAGTTTTTTTTTCTAA

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**FIGURE 3059A**

CTGGTCTCCGCGTGTGTGAGTACCGCGGCGCGAGGTTAGTGGTAGCTGGGTGCAGACGCCGTGGCGCTGGAGACC  
CAAACATGGCAAACCTGGAAGAAAGCTTCCCCGAGGAGGTACAAGAAAGATCCACAAACCAGAGAAAGCTTTCC  
AGCAGTCAGTTGAACAAGACAACCTATTTGATATTCTACTGAAGAGGGATCCACCAAAAGAAAAAGAGCCAGA  
AGGGGCCAGCAAAAACAAAAAGTTGAAAATCGAAAAGAGAGAAAGCAGCAAGTCCGCAAGAGAGAAGTTTGAAA  
TCCTTAGTGTGAGTCCCTGTGTGAGGGAATGCGTATTTTGGGTTGCGTGAAAGAGGTGAATGAACTGGAAGTGG  
TGATTAGTCTCCCAATGGCCTCCAGGGCTTTGTGCAAGTCACTGAAATCTGTGATGCCTACACCAAAAAGCTGA  
ATGAGCAGGTGACACAAGAACAACCTCTGAAGGACCTACTTCACTTGCCTGAACTTTTCTACCTGGAATGCTGG  
TAAGATGTGTGGTGAGCAGTCTGGGCATCACAGACAGGGGCAAGAAGAGTGTCAAGCTGTCTCTGAACCCCAAAA  
ATGTCAACAGAGTGCTGAGTGCTGAGGCCCTGAAGCCTGGCATGTACTTACAGGTACCGTATCCAGCCTGGAAG  
ACCATGGCTACCTAGTGGACATTGGTGTGATGGGACCAGAGCTTTTCTGCCACTGTGAAAGCCCAGGAGTACA  
TCAGACAGAAGAACAAGGTGCTAAACTAAAGGTGGGTCACTACCTGAACTGCATTGTTGAAAAGGTGAAAGGCA  
ACGGAGGAGTTGTTAGTCTGTCTGTTGGTCACTCAGAGGTTTCTACGGCCATTGCTACTGAACAGCAGAGCTGGA  
ACCTTAATAACTTGCTACCAGGACTGGTGGTCAAAGCTCAGGTACAGAAGGTGACTCCATTGGCCTTACGCTAA  
ACTTCTCACATTCTCACGGGCGTGGTTGACTTTATGCACCTGGATCCCAAGAAAGCTGGAACATATTTCTCAA  
ATCAGGCAGTGAGGGCCTGCATCCTTTGCGTCCATCCTCGAACCAGAGTTGTGCACCTGAGCCTGCGCCCCATCT  
TCCTACAGCCTGGACGCCCCACTCACCCGACTCTCTTGCCAGAACCTTGGAGCAGTGCTGGATGATGTTCTCTGTCC  
AGGGTTTTTTTCAAAAAGGCTGGGGCCACCTTTAGGCTGAAGGATGGGGTTCTGGCCTATGCCCGGCTCAGCCATC  
TCTCTGATTCTAAGAACGTCTTCAATCCTGAGGCCTTCAAGCCAGGGAACACTCACAAGTGTAGAATTATTGACT  
ACAGCCAAATGGATGAACTGGCCTTGCTCTCTCTACGAACGCTCTATTATTGAAGCTCAGTACCTTAGATATCATG  
ACATCGAACCTGGGGCAGTGGTAAAGGGCACAGTGCTAACCATAAAGTCATATGGGATGCTGGTGAAGGTGGGCG  
AGCAGATGAGGGGCTGTACCTCCCATGCACCTGGCTGACATCCTGATGAAGAATCCGGAGAAGAAGTACCACA  
TCGGGGATGAGGTCAAGTGCCGGGTTTTGCTTTGTGACCTGAAGCCAAGAAGCTGATGATGACCCTGAAAAAAA  
CCCTGATTGAGTCCAACTACCTGTCTATTACCTGCTATGCCGATGCCAAGCCTGGTCTGCAGACACATGGCTTCA  
TCATCAGGCTCAAGGACTATGGCTGCATTGTGAAGTTCTACAACAATGTGCAGGGACTGGTGGCCAAGCATGAGC  
TCAGTACTGAGTATATCCCTGACCCGGAGAGAGTTTTTTTACTGTCAGGTGGTGAAGGTTGTGCTATTGAACT  
GTGAGCCATCCAAAGAGAGGATGCTCTTATCCTTCAAGCTGTGAGTGATCCAGAGCCAAAGAAAGAGCCTGCAG  
GACACAGTCAGAAGAAAGGAAAGCCATTAACTTGGGCAGTTGGTAGATGTGAAGGTTTTAGAGAAGACCAAG  
ATGGGCTGGAGGTGGCTGTCTGCCCCACAACATCCGTGCTTTCTCCCCACATCTCATCTGTCGGACCACGTTG  
CCAACGGCCCATTTGTTACATCATTGGCTCCAGGCAGGTGACATCCTTCACCGAGTCCTGTGTCTGAGCCAGAGCG  
AGGGGCGTGTCTTCTTTGAGGAAGCCAGCCTTGGTCTCCACAGTAGAAGGTGGCCAGGATCCCAAGAACTTCT  
CAGAAATCCATCCTGGAATGCTGCTCATTGGTTTTGTGAAGAGCATCAAGGACTATGGCGTGTTCATCCAGTTCC  
CCTCAGGTCTTAGCGGACTGGCCCCAAAAGCTATCATGAGTGACAAATTTGTGACCTCCACAAGTGACCACTTTG  
TTGAGGGCCAGACAGTAGCGGCAAGGTGACCAATGTGGATGAGGAGAAGCAGCGGATGCTGCTGCTACTGCGGC  
TGTCGGACTGTGGTCTGGGGGACTTGGCTATCACCAGCCTCCTCCTCTGAATCAGTGCTGGAGGAGCTGCAGG  
GCGTGCGCAGCCTTATGAGCAACCGAGACTCTGTGTTGATCCAGACGCTGGCCGAGATGACCCAGGAATGTTCC  
TTGACCTAGTGGTGAGGAGGTGTTGGAAGATGGCTCTGTGGTATTAGTGGGGTCCAGTGCCCGACCTGGTCC  
TGAAAGCCAGCAGATACCATCGCGCAGGGCAGGAGGTGGAATCTGGGCAGAAAAAGAGGTTGTTATCTTAAATG  
TTGATCTTTTGAAGTTGGAAGTGCACGTTTCCCTTACCAGGACTTGGTGAATAGAAAAGCTAGAAAGCTGAGGA  
AAGGCAGCGAACACCAGGCGATTGTGCAGCACTTGGAGAAGTCCTTTGCCATTGCCTCCTTGGTAGAGACGGGCC  
ACCTGGCAGCTTTCTCCCTGACCTCTCACCTCAACGACACCTTCCGCTTTGACTCAGAGAAATTGCAGGTGGGAC  
AGGGTGTCTCCCTAACCTCAAGACCACAGAACCAGGAGTGACTGGCCTTCTTTTGGCTGTGGAGGGGCCGGCTG  
CCAAGAGGACCATGAGGCCGACCCAGAAGGACTCTGAGACAGTTGATGAGGATGAAGAAGTGGATCCAGCTCTGA  
CTGTAGGGACCATAAAGAAGCACACCTCTCCATCGGGGACATGGTCACAGGACTGTCAAGTCCATTAAAGCCTA  
CCCATGTGGTTGTGACTCTGGAAGATGGCATTATTGGCTGTATCCATGCCTCCACATTCTAGATGTTTCCAG  
AGGGCACCTCTCCTACTACCAAGCTGAAGGTTGGGAAGACGGTCACTGCCCGAGTGATTGGCGGGGAGACATGA  
AGACATTCAAGTATCTCCAATAAGTCACCCAGATTGGTTCAACCATCCCGGAGCTGAGTGTTCGGCCAAGTG  
AGCTGGAGGATGGCCACACTGCTCTTAACACTCACTCTGTTAGCCCCATGGAGAAGATTAAACAGTACCAGCCG  
GCCAGACTGTTACTTGCTTCTTAAAGAAATACAATGTGGTGAAGAAATGGCTTGAGGTGGAGATTGCCCCAGACA

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**FIGURE 3059B**

TCCGGGGGAGAATTCCCTTATTGCTCACTTCTCTGAGCTTCAAGGTTCTGAAGCATCCAGATAAGAAGTTCCGGG  
TTGGCCAGGCCCTGAGGGCCACCGTTGTGGCCAGATTCCCTCCAAGACCCCTCTATGTCTGTCCCTCACAGGTC  
CTCACAAGCTTGAGGAAGGGGAAGTGGCCATGGGCCGAGTGGTGAAGGTGACTCCCAACGAGGGGCTGACCGTCT  
CCTTCCCTTTTGGGAAGATAGGAACAGTCAGTATATTTACATGAGTGACTCCTACTCCGAGACGCCCCCTGGAAG  
ACTTCGTCCCCCAGAAGGTTTTAGATGTTACATCCTGTCCACTGCAGACAACGTATTGACTTTGTGCTGCGAT  
CATCCAGAACAACCCGGAGACGAAAAGCAAAGTAGAAGATCCAGAGATTAATCCATCCAGGACATTAAGGAAG  
GGCAGCTTCTGAGGGGCTATGTAGGGTCCATCCAGCCACACGGTGTGTTCTTTGCGCTTGGCCCCCTCCGTTGTGG  
GTTTGGCTCGGTACTCCCATGTCTCCAGCACAGCCCGTCCAAGAAAGCCCTTTATAACAAACACCTCCCTGAAG  
GGAAGCTGCTCACAGCCAGGGTCCTACGCCCTTAACCACCAGAAGAACCCTGGTAGAGCTGTCTTCTCCCCGGAG  
ACACTGGGAAGCCAGACGTGCTTTCTGCTTCTTGGAAGGGCAACTTACAAAGCAAGAGGAGAGGAAAACAGAGG  
CTGAGGAGAGAGACCAAAAAGGGGAAAAGAAAATCAGAAAAGGAACGAGAAGAAGAACCAGAAGGGGCAGGAGG  
AGGTGGAGATGCCCAGCAAGGAGAAGCAACAGCCCCAGAAGCCACAGGCGCAGAAGCGGGGCGGGCGGGAGTGCC  
GGGAGTCTGGGAGTGAGCAGGAAAGAGTGAGCAAGAAGCCAAAGAAAGCCGGCTGTGAGAGGAGGACGACAGCC  
TTGTGGACGTGTACTATCGGGAGGGAAAAGAGGAGGCAGAAGAGACGAATGTGCTGCCAAGGAGAAGCAAACCA  
AGCCAGCAGAAGCGCCCCGGCTGCAGCTGTCTTCAGGCTTCGCTTGGAATGTGGGACTAGACTCTCTGACCCCGG  
CCTTGCCACCTCTAGCAGAGAGCTCAGACAGCGAGGAGGATGAGAAGCCACACCAAGCCACGATAAAGAAAAGCA  
AGAAAGAAAGGGAGTTGGAGAAGCAGAAGGCAGAGAAGGAAGTGTCCCGCATTGAGGAGGCGCTGATGGATCCTG  
GGCGGCAGCCAGAGTCCGCGGATGATTTTGACCGACTGGTGCTGAGCTCCCCAACAGCTCCATTCTGTGGCTGC  
AGTACATGGCTTTCCACCTGCAGGCCACGGAGATCGAGAAGGCCCGTGCCGTGGCTGAGAGGGCCCTTAAGACCA  
TCTCCTTCAGAGAGGAGCAGGAGAAGCTGAACGTGTGGTGGCTCTGCTGAACCTGGAGAACATGTACGGCTCTC  
AGGAGTCCCTGACCAAGGTCTTTGAGCGAGCCGTGCAGTACAACGAGCCTCTCAAAGTCTTTCTCCACCTGGCTG  
ACATCTACGCCAAGTCAGAGAAATTCAGGAAGCTGGTGAAGTCTACAACCGGATGCTGAAGCGTTTCCGGCAGG  
AGAAAGCTGTGTGGATCAAATACGGCGCCTTCCTTCTGCGGAGGAGCCAGGCTGCAGCCAGTACCGCGTGCTGC  
AGCGAGCCCTGGAGTGCTGCCTAGCAAGGAGCATGTGGATGTGATTGCCAAGTTTGCCAGCTTGAGTTTCAGC  
TGGGGGATGCAGAGCGGGCCAAAGCCATTTTGAAGACACGCTGAGCACCTACCCAAAGCGCACAGATGTCTGGT  
CGGTCTATATCGACATGACCATCAAGCACGGCAGCCAGAAGGACGTCCGGGACATCTTTGAGCGGGTCATTTCATC  
TGAGCTTGGCCCCCAAGAGAATGAAGTTCTTCTTCAAGCGCTACCTGGACTACGAGAAGCAGCATGGCACTGAGA  
AGGATGTGCAGGCAGTCAAGGCCAAGGCCCTGGAGTATGTGGAGGCCAAGAGCTCAGTGCTAGAGGACTAGTGGC  
AGGCTGGCTCTGTGGGACACTGTCAACAATGGGCCAGCCCGGCCCGCCTCGAGTGCCTGGGCACTCGGAAAAC  
GTTACCTCAGGACTCTATTTAAATGCTGCTTTTCTGTCAGCACGCTTGGGGAAATCCTGTGAGGATGAAAAGGAA  
GTTGAGATTTTTTAAATCCCTCTTTCGCTTGCTTTATTTTCAGTACCAACTTGTTATCTTTTCTTATCTGAGGC  
TACCTGGGGATTGTGGGCAGCAGGCCCTGGACTCCAGAAATGCTGAGGGTCCCTCTTCCAGGGGAGTTCCCTG  
GGGAGCAAGAGTAGAGGGGCTATTCCCAGGGGTCTGTGGTCAGGGTCTGCTTTGTCCCTGGCAGGCTGTGAGT  
CCAGCTGGAGGGGGTCACTAGGCTCCAGGGAGTGGGCCCTCCCTCCGATCTTGAGTCTCTGGGTGTTCTTCA  
GCCTCAGCCTCACTGGTACCTTCTGCCCTTTAGGGGAGGCTATGAGTCTGGGACAGGAGGACAAATTCAGAGCCC  
AGAGGGGGAAATGGAGAAACCTGGGCTGCTGAGGAAAGCCACGGGTGTTGGCGTGAAGTGTGATGTCTCATCCC  
ACGCCCCTATGGCCACATTACCTAACCTCTCCATATCTGGGCTATTCAAGGTCTTGAGGGCCAGCACAGACCCA  
GCTAGTTGTTGAAGCCAGTTCTTTTTTGTCTTGGTCAAGGGAATTAACGTTTTCTCTGGCAG

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**FIGURE 3060**

MANLEESFPRGGTRKIHKPEKAFQQSVEQDNLFDISTEEGSTKRKKSQKGPATKKLKIEKRESSKSAREKFEIL  
SVESLCEGMRILGCVKEVNELELVISLPNGLQGFVQVTEICDAYTKKLNEQVTQEQLKDLLHLPELFSFGMLVR  
CVVSSLGITDRGKKS VKLSLNPKNVNRVLSAEALKPGMLLTGTVSSLEDHG YLVDIGVDGTRAFPLPKAQEYIR  
QKNKGAKLVGQYLNCIVEKVKNGGVVSLSVGHSEVSTAIATEQQSWNLNNLPLGLVVKAQVQKVTFFGLTLNF  
LTFFTGVVDFMHLDPKKAGTYFSNQAVRACILCVHPRTRVVHLSLRPIFLQPGRPLTRLSCQNLGAVLDDVPVQG  
FFKKAGATFRLKDGVLAYARLSHLSDSKNVFNPEAFKPGNTHKCRIIDYSQMDLALLSLRTSIEAQYLYRHYDI  
EPGAVVKGTVLTIKSYGMLVKVGEQMRGLVPPMHADILMKNPEKKYHIGDEVKCRVLLCDPEAKLMMTLKKTIL  
IESKLPVITCYADAKPGLQTHGFIIRVKDYGCIVKFYNNVQGLVPKHELSTEYIPDPERVFTGTQVVVVVNLCE  
PSKERMLLSFKLSSDPEPKKEPAGHSQKKGKAINIGQLVDVKVLEKTKDGLEVAVLPHNIRAFPLTSHLSHDHVN  
GPLLHHWLQAGDILHRVLCLSQSEGRVLLCRKPALVSTVEGGQDPKNFSEIHPGMLLIGFVKS IKDYGVFIQFPS  
GLSGLAPKAIMSDKFVTSTSDHFVEGQTAAKVTVNDEEKQRMLLSLRLSDCGLGDLAITSLLLLNQCLEELQGV  
RSLMSNRDSVLIQT LAEMTPGMFLDLVVQEVLEDGSSVFSGGPVPDLVLKASRYHRAGQEVESGQKKKVILNVD  
LLKLEVHVS LHQDLVNRKARKLRKGSEHQAI VQHLEKSFAIASLVETGHLAAFSLTSHLNDTFRFDSEKLQVGQG  
VSLTLKTTEPGVTGLLLAVEGPAAKRTMRPTQKQDSETVDEDEEVDPALTVGTIKKHTLSIGDMVTGTVKS IKPTH  
VVVTLEDGIIGCIHASHILDDVPEGTSPTTKLVGKTVTARVIGGRDMKTFKYLPISHPRFVRTIPELSVRPSEL  
EDGHTALNTHSVSPMEKIKQYQAGQTVTCFLKYNVVKWLEVEIAPDIRGRIPLLTSLSFVKLKHDPKKFRVG  
QALRATVVGPDSSKTLCLSLTGPHKLEEGEVAMGRVVKVTPNEGLTVSFPFGKIGTVSIFHMSDSYSETPLEDF  
VPQKVFRCYILSTADNVLTLSLRSSRTNPETKSKVEDPEINSIQDIKEGQLLRGYVGSIQPHGVFFRLGPSVVG  
ARYSHVSQHSPSKKALYNKHLPEGKLLTARVLRNLHQNVLVELSFLPGDTGKPDVLSASLEGQLTKQEERKTEAE  
ERDQKGEKKNQKRNEKKNQKQEEVEMPSKEKQPPQKPAQKRGGRECRESGSEQERVSKPKKAGLSEEDSLV  
DVYYREGKEEAEETNVLPKEKQTKPAEAPRLQLSSGFAWNVGLDSLTPALPPLAESDSEDEKPHQATIKKSKK  
ERELEKQKAEKELSRIEEALMDPGRQPEADDFDRLVLSSPNSSILWLQYMAFHLQATEIEKARAVAERALKTIS  
FREEQEKLNVVALLNLENMYGSQESLTKVFERAVQYNEPLKVF LHLADIYAKSEKFQEAGELYNRLKRFQEK  
AVWIKYGAFLLRRSQAAASHRVLQRALECLPSKEHVDVIAKFAQLEFQLGDAERAKAIFENTLSTYPKRTDVWSV  
YIDMTIKHGSQKDVRDIFERVIHLSLAPKRMKFFFKRYLDYEQHGTEKDVQAVKAKALEYVEAKSSVLED



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**FIGURE 3061**

CCGAGAGGTGGTTACATTCGTTGAAGGACACCAGCTGCGGAATTTGCGGCTTTGGCAGACCCAGCTGAGTCACTG  
TCACTGCCTACCAATCTCGACCGGACCTCGACCGGCTCGTCTGTGCTGCCAATCGACTCGGCGTGGCGTCGGTTCG  
TGGTAGATAGGCGGTCATGCATACGAATTTTCAGCTCTTGTTCTGGTGACCTTTGAATACGTCTTGCTCTATAAA  
AGAAATTCATGCCTTTGTAAAATACACAGATTGAAATCATGSCAGGTCCAGAAAGTGATGCGCAATACCAGTTCA  
CTGGTATTAAAAAATATTTCAACTCTTATACTCTCACAGGTAGAATGAACTGTGTACTGGCCACATATGGAAGCA  
TTGCATTGATTGTCTTATATTTCAAGTTAAGGTCCAAAAAACTCCAGCTGTGAAAGCAACATAAATGGATTTTA  
AACTGTCTACGGTTCTTAACCTCATCTGTTAAGTTCCCATGCCTGGAGAAGCTAATGCCAACTCATCATGTGATA  
ATTCAATTTGTACAATAAATTATGAACCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 3062**

MAGPESDAQYQFTGIKKYFNSYTLTGRMNCVLATYGSIALIVLYFKLRSKKTPAVKAT

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**FIGURE 3063**

CGGCATGTGGAAGAAGGTGAAGATGSCGGTGGCCAGGGCCGGGGTCTTGGGAGTCCAGTGGCTGCAAAGGGCATC  
CCGGAACGTGATGCCGCTGGGCGCACGGACAGCCTCCCACATGACCAAGGACATGTTCCCGGGGCCCTATCCTAG  
GACCCAGAGAAGAACGGGCCGCCGCCAAGAAGTATAATATGCGTGTGGAAGACTACGAACCTTACCCGGATGA  
TGGCATGGGGTATGGCGACTACCCGAAGCTCCCTGACCGCTCACAGCATGAGAGAGATCCATGGTATAGCTGGGA  
CCAGCCGGGCCCTGAGGTTGAACTGGGGTGAACCGATGCACTGGCACCTAGACATGTACAACAGGAACCGTGTGGA  
TACATCCCCACACCTGTTTCTTGGCATGTCATGTGTATGCAGCTCTTCGGTTTCCTGGCTTTCATGATATTCAT  
GTGCTGGGTGGGGACGTGTACCCTGTCTACCAGCCTGTGGGACCAAAGCAGTATCCTTACAATAATCTGTACCT  
GGAACGAGGCGGTGATCCCTCCAAAGAACCAGAGCGGGTGGTTCACTATGAGATCTGAGGAGGCTTCGTGGGCTT  
TTGGGTCCTCTAACTAGGACTCCCTCATTCTAGAAATTTAACCTTAATGAAATCCCTAATAAACTCAGTGCTG  
TGTTAAAAAAAAA

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**FIGURE 3064**

MAVARAGVLGVQWLQRASRNVMLGARTASHMTKDMFPGPYPRTPEERAAAAKKYNMRVEDYEPYPDDGMGYGDY  
PKLPDRSQHERDPWYSWDQPGLRLNWGEPMHWHLDMYNRRNRVDTSETPVSWHVMCMQLFGFLAFMIFMCWVGDVY  
PVYQPVGPKQYPYNNLYLERGGDPSKEPERVVHYEI

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**FIGURE 3065**

ACGGTCACCCGTTGCCAGCTCTAGCCTTTAAATTCCCGGCTCGGGGACCTCCACGCACCGGGCTAGCGCCGACA  
ACCAGCTAGCGTGCAAGGCGCCGCGGCTCAGCGCGTACCGGCGGGCTTCGAAACCGCAGTCTCCGGCGACCCCG  
AACTCCGCTCCGGAGCCTCAGCCCCCTGGAAAGTGATCCCGGCATCCGAGAGCCAAGATGCCGGCCCACTTGCTG  
CAGGACGATATCTCTAGCTCCTATACCACCACCACCACATTACAGCGCCTCCCTCCAGGGTCTGCAGAATGGA  
GGAGATAAGTTGGAGACGATGCCCTCTACTTGGAAGACGACATTGCGCCTGATATAAAAGATGATATATATGAC  
CCCACCTACAAGGATAAGGAAGGCCCAAGCCCCAAGGTTGAATATGTCTGGAGAAACATCATCCTTATGTCTCTG  
CTACACTTGGGAGCCCTGTATGGGATCACTTTGATTCTACCTGCAAGTTCTACACCTGGCTTTGGGGGGTATTC  
TACTATTTTGTGAGTCCCTGGGCATAACAGCAGGAGCTCATCGTCTGTGGAGCCACCGCTCTTACAAAGCTCGG  
CTGCCCTACGGCTCTTTCTGATCATTGCCAACACAATGGCATTCCAGAATGATGTCTATGAATGGGCTCGTGAC  
CACCGTGCCCAACCACAAGTTTTTCAGAAACACATGCTGATCCTCATAATTCCCGACGTGGCTTTTTCTTCTCTCAC  
GTGGGTTGGCTGCTTGTGCGCAAACACCCAGCTGTCAAAGAGAAGGGGAGTACGCTAGACTTGTCTGACCTAGAA  
GCTGAGAAACTGGTGATGTTCCAGAGGAGGTACTACAAACCTGGCTTGCTGATGATGTGCTTCATCCTGCCCACG  
CTTGTGCCCTGGTATTTCTGGGGTGAACTTTTCAAAACAGTGTGTTGCTTGCCACTTTCTTGCGATATGCTGTG  
GTGCTTAATGCCACCTGGCTGGTGAACAGTGCTGCCACCTCTTCGGATATCGTCTTATGACAAGAACATTAGC  
CCCCGGGAGAATATCCTGGTTTTCACTTGAGCTGTGGGTGAGGGCTTCCACAACCTACCACCACTCCTTTCCCTAT  
GACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTCACCACATTCTTCATTGATTGCATGGCCGCCCTCGGT  
CTGGCCTATGACCGGAAGAAAGTCTCCAAGGCCGCCATCTTGCCAGGATTAAAAGAACCGGAGATGGAAACTAC  
AAGAGTGGCTGAGTTTGGGGTCCCTCAGGTTCCTTTTTCAAAAACAGCCAGGCAGAGGTTTTAATGTCTGTTA  
TTAACTACTGAATAATGCTACCAGGATGCTAAAGATGATGATGTTAACCCATTCCAGTACAGTATTCTTTAAAA  
TTCAAAAGTATTGAAAGCC

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**FIGURE 3066**

TCTCTTGATTCCCTAGTCTCTCGATATGGCACCTCCGTCAGTCTTTGCCGAGGTTCCGCAGGCCAGCCTGTCCCTG  
GTCTTCAAGCTCACTGCCGACTTCAGGGAGGATCCGGACCCCGCAAGGTCAACCTGGGAGTGGGAGCATATCGC  
ACGGATGACTGCCATCCCTGGGTTTTGCCAGTAGTGAAGAAAGTGGAGCAGAAGATTGCTAATGACAATAGCCTA  
AATCAGGAGTATCTGCCAATCCTGGGCTGGCTGAGTTCCGGAGCTGTGCTTCTCGTCTTGCCCTTGGGGATGAC  
AGCCCAGCACTCAAGGAGAAGCGGGTAGGAGGTGTGCAATCTTTGGGGGAACAGGTGCACITTCGAATTGGAGCT  
GATTTCTTAGCGCGTTGGTACAATGGAACAAACAACAAGAACACACCTGTCTATGTGTCTCACCACCTGGGAG  
AATCACAATGCTGTGTTTTCCGCTGCTGGTTTTAAAGACATTCCGGTCCTATCGCTACTGGGATGCAGAGAAGAGA  
GGATTGGACCTCCAGGGCTTCCTGAATGATCTGGAGAATGCTCCTGAGTCTCCATTGTTGTCTCCACGCCCTGT  
GCACACAACCCAACTGGGATTGACCCAACTCCGGAGCAGTGGGAAGCAGATTGCTTCTGTCTGAAGCACC GGTTT  
CTGTTCCCTTCTTTGACTCAGCCTATCAGGGCTTCGCATCTGGAAACCTGGAGAGAGATGCCTGGGCCATTTCGC  
TATTTTGTGTCTGAAGGCTTCGAGTTCTTCTGTGCCAGTCCTTCTCCAAGAACTTCGGGCTCTACAATGAGAGA  
GTCGGGAATCTGACTGTGGTTGGAAAAGAACCTGAGAGCATCCTGCAAGTCCTTTCCAGATGGAGAAGATCGTG  
CGGATTACTTGGTCCAATCCCCCGCCAGGGAGCACGAATTGTGGCCAGCACCTCTCTAACCCTGAGCTCTTT  
GAGGAATGGACAGGTAATGTGAAGACAATGGCTGACCGGATTCTGACCATGAGATCTGAACCTAGGGGCACGACTA  
GAAGCCCTCAAAACCCCTGGGACCTGGAACCACATCACTGATCAAATTGGCATGTTTCTAGCTTCACTGGGTTGAAC  
CCCAAGCAGGTTGAGTATCTGGTCAATGAAAAGCACATCTACCTGCTGCCAAGTGGTCAATCAACGTGAGTGGC  
TTAACCACCAAAAATCTAGATTACGTGGCCACCTCCATCCATGAAGCAGTCACCAAAATCCAGTGAAGAAACACC  
ACCCGTCCAGTACCACCAAAGTAGTTCTCTGTCTATGTGTGTCCCTGCCTGCACAAACCTACATGTACATACCAT  
GGATTAGAGACACTTGCAGGACTGAAAGCTGCTCTGGTGAGGCAGCCTCTGTTTAAACCGGCCCCACATGAAGAG  
AACATCCCTTGAGACGAATTTGGAGACTGGGATTAGAGCCTTTGGAGGTCAAAGCAAATTAAGATTTTTATTAA  
GAATAAAAGAGTACTTTGATCATGAGACATAGGTATCTTGTCCCTCTCACTAAAAAGGAGTGTGTGTGTGGCGG  
CCACGTGCTTCTATGTGGTGTGTTGACTCTGTACAAATTCTAGTCCCAAAGATCAAGTTGTCTGAAGGAGCCAAAG  
TGTGAATGTGGGTGTGCGCTGCGGCATTAAATTCATCATCTCAACCCAGAGTGTCTGGTCTCCCTGCTCTTTCTG  
CATGGTTGTGTCCCTAGTCTTAAGCTTTGGTTCTTTAGGGTGACTGTGGTAAGAAGGATATTTAATCATGACATG  
CACGGACACGTACATATTTAACTGAAACAAGTTTTACCAAACAGTATTTACTCGTGATGTGCGTAGTGCATTCTG  
ATATTTTTGAGCCATTCTATTGTGTTCTACTTCACCTAAAAAATAAAATAAAATGTTGATCAAG

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**FIGURE 3067**

MAPPSVFAEVFQAQPVLVFKLTADFREDPDPRKVN LGVGAYRTDDCHPWVLPVVKKEQKIANDNSLNHEYLPIL  
GLAEFRSCASRLALGDDSPALKEKRVGGVQSLGGTGALRIGADFLARWYNGTNNKNTPVYVSSPTWENHNAVFSA  
AGFKDIRSYRYWDAEKRGDLQGFLNDLENAPEFSIVVLHACAHNPTGIDPTPEQWKQIASVMKHRFLFPFFDSA  
YQGFASGNLERDAWAIRYFVSEGFEFFCAQSFSKNFGLYNERVGNLTVVGKEPESILQVLSQMEKIVRITWSNPP  
AQQARIVASTLSNPELFEEWTGNVKT MADRILTMRSELRARLEALKTPGTWNHITDQIGMFSFTGLNPKQVEYLV  
NEKHIYLLPSGRINVSGLTTKNLDYVATSIHEAVTKIQ

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**FIGURE 3068A**

GGCTGGGGGGCGCGGGCGGGAGGCGGATAAAAAGGCCCCAGGGCGCCCGGGGAGGGAGCCCGTTAGCGCTGCTC  
CGCCGCGGCGCGCCCGCCAGCCCCGGACTGTCCGCGCTCCATCTGGTATCTTGGCCTCAGCTGTCTTGAAGTCAC  
CATGGGCGAGGTCCCCACCAGCCACCCTCTTTCTGTTCCTGCTGCTGCTAGGCCAGCCCCCTCCAGCAGGCCACA  
GTCACTGGGCACCACTAAGCTCCGGCTGGTGGGCCAGAGAGCAAGCCAGAGGAGGGCCGCTTGGAGGTGCTGCA  
CCAGGGCCAGTGGGCGACCGTGTGTGATGACAACCTTGTCTATCCAGGAGGCCACAGTGGCTTGCGCCAGCTGGG  
CTTCGAAGCTGCCTTGACCTGGGCCCCAGTGGCAAGTACGGCCAAGGGGAGGGACCCATCTGGCTGGACAATGT  
GCAGTGTGTGGGCACAGAGAGCTCCTTGACCAGTGTGGGTCTAATGGCTGGGGAGTCACTGACTGCAGTCACTC  
AGAAGACGTAGGGGTGATATGCCACCCCGGCGCCATCGTGGCTACCTTTCTGAAACTGTCTCCAATGCCCTTGG  
GCCCCAGGGCGCGGCTGGAGGAGGTGCGGCTCAAGCCCATCCTTGCCAGTGCCAAGCAGCATAGCCCAGTGAC  
CGAGGGAGCCGTGGAGGTGAAGTATGAGGGCCACTGGCGGCAGGTGTGTGACCAGGGCTGGACCATGAACAACAG  
CAGGGTGGTGTGCGGGATGCTGGGCTTCCCCAGCGAGGTGCCTGTGACAGCCACTACTACAGGAAAGTCTGGGA  
TCTGAAGATGAGGGACCCCTAAGTCTAGGCTGAAGAGCCTGACGAATAAGAACTCCTTCTGGATCCACCAGGTCAC  
CTGCCTGGGGACAGAGCCCCACATGGCCAAGTGCAGGTGCAGGTGGCTCCAGCCCCGGGGCAAGCTGCGGCCAGC  
CTGCCCAGGTGGCATGCATGCTGTGCTCAGCTGTGTGTCAGGGCCCTCACTTCCGCCCACGAAGACAAAGCCACA  
ACGCAAAGGGTCTTGGGCAGAGGAGCCGAGGGTGCCTGCGCTCCGGGGCCCAGGTGGGCGAGGGCCGGGTGGA  
AGTGCTCATGAACCGCCAGTGGGGCACGGTCTGTGACCACAGGTGGAACCTCATCTCTGCCAGTGTCTGTGTGTCG  
TCAGCTGGGCTTTGGCTCTGCTCGGGAGGCCCTCTTTGGGGCCCGGTGGGCCAAGGGCTAGGGCCCATCCACCT  
GAGTGAGGTGCGCTGCAGGGGATATGAGCGGACCCTACGCACTGCCCTGCCCTGGAAGGGTCCCAGAAATGGTTG  
CCAACATGAGAATGTGCTGCTGTGCAAGTGTCCCTAACATGGGCTTTTCAAGATCAGGTGCGCTTGGCTGG  
TGGGCGTATCCCTGAGGAGGGGCTATTGGAGGTGCAGGTGGAGGTGAACGGGGTCCCACGCTGGGGGAGCGTGTG  
CAGTGA AAACTGGGGGCTCACCGAAGCCATGGTGGCTGCCGACAGCTCGGCCTGGGTTTGGCATCCATGCCTA  
CAAGGAAACCTGGTTCTGGTCGGGGACGCCAAGGGCCCAGGAGGTGGTGTGAGTGGGGTGCCTGCTCAGGCAC  
AGAGCTGGCCCTGCAGCAGTGCCAGAGGCACGGGCCGGTGCCTGCTCCCACGGTGGCGGGCGCTTCTGGCTGG  
AGTCTCCTGCATGGACAGTGCACCAGACCTGGTGTGAACGCCAGCTAGTGCAGGAGACGGCCTACTTGGAGGA  
CCGCCCCGCTCAGCCAGCTGTATTGTGCCACAGGAGAACTGCCTCTCCAAGTCTGCGGATCAGATGGACTGGCC  
CTACGGATACCGCCGCTATTGCGCTTCTCCACACAGATCTACAATCTGGGCGGACTGACTTTTCGTCCAAGAC  
TGACGCGATAGCTGGGTTTGGCACCAAGTGCACAGGCATTACACAGCATTGAGGTCTTACCCACTACGACCT  
CCTCACTCTCAATGGCTCCAAGGTGGCTGAGGGGCACAAGGCCAGCTTCTGTCTGGAGGACACAACTGCCCCAC  
AGGACTGCAGCGCGCTACGCATGTGCCAACTTTGGAGAACAGGGAGTGAAGTGTAGGCTGTGGGACACCTACCG  
GCATGACATTGATTGCCAGTGGGTGGATATCAGATGTGGGCCCCGGGAATTATATCTTCCAGGTGATTGTGAA  
CCCCCACTATGAAGTGGCAGAGTCAGATTTCTCCAACAATATGCTGCAGTGCCGCTGCAAGTATGATGGGACCG  
GGTCTGGCTGCACAACTGCCACACAGGGAATTCATACCCAGCCAATGCAGAACTCTCCCTGGAGCAGGAACAGCG  
TCTCAGGAACAACCTCATCTGAAGCTGTCACTGCACACTCCTAGCTGTGCCGATACACCAGATACCTCAGCTTA  
TTGGAGCCATGCCCTTACAGAGTCCCAACTCAGAGGAAAAGGGCCAGTGCCAAGGGGCACCAAGAACCTGCTCA  
GGAAGCCTTTTGATGGCAAGATCACCAATCCAGATGGTATTGCTCCCTCAGGATGGCTCTGGGCTGCCCTAAG  
GGCTGTGGCTATGGAATATGCTCTCCAGGCTTTGCTCAGCTGAGCTCCTCTTCTGTAAGGAAACCCAGTCACT  
CCTGAATCTTGCCACAGAGATCCGGGATTACAGGAGCTCTCAGTTTCTTAGGGATGGACTATGGCCAGTCCCCCA  
TCTAAGTGGTGTCTTGCAAATGCTTGGAGGAGTATAGGACAGAGGACCAAAATACACAGCAGGTAGTGTAGCT  
CTCTGCTAGGAGCTCAAAGCAACACAACCTTGTATCAAAATCACAACCTGGCAGAGAAGCTGGTGGATCCAATCCTT  
TCTTCATCTGTTGTTATTTAGAACTACCTCTCACACTCTGTTCTTTAGTGTCTTACCTTTATCTTACCACACA  
CATGGGTGTTTCTATTATCCTTGGAGCACAGACCTCGGGCATCCCTTATTGCCTGATGGGCCAACACCAACAG  
TTACGGAGTGCTTGAAGGGGCAAGTTTACAGAAATGGCCAGATAGGGCCTTCTTACAGAGCAGCAAGAGTAG  
GCCAAGCAGAAAGACTGCTGAGGTAACACGGACCCAGCCCCCTGTGAGGGCTCTGCCAAGGAAATAATAGGAC  
CATTTACCTGGCAGGCAGTCTGCTCTCTCAGGATCACCACGCATCTCAGGATTGGTCTAAACTTCAAGTCTCA  
ACCAAGTGTCTGAAGTGAACCTTGCATTGAATAAATTTTGCCATGGAAAGAACATCAAACAAGCCACTCATCTC  
TACAGAGATAAGAAAACAAGTTTGGCAGAGCAAGAGACAGAAGACCGTGGAGAAATCAGAAGGGGGAACAGTCAG  
TTTAGTTAAGGATGGAACCTGGGAAAGGCCACCATCTGCTTGTATGGGGCTCTGATTGCTCTTGTCAAGTGG  
AATAAAACCCCATGGTCTTCTTGACATGATTCTTGATCTTTTCTCCACTGAGACACACTAAGTGTATGATCCTTA



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**FIGURE 3068B**

CAGGACTGACACCCTAATGCCAATAAAAGTTGCTCATTATGGACTGCTACAAAAAAAAAAAAAAAA

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**FIGURE 3069**

MARSPPATLFLFLLLLGQPPPSRPQSLGTTKLRLVGPESKPEEGRLEVLHQGWGTVCDDNFQIEATVACRQLG  
FEAALTWAHSAKYQGEGPIWLDNVQCVGTESSLDQCGSNGWGVSDCSHSEDVGVICHPRRHRGYLSETVSNALG  
PQGRRLLEEVRLLKPILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWMTMNSRVVCGMLGFPSEVPVDSHYRKYWD  
LKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHVVSCVAGPHFRPPKTKPQ  
RKGSWAEEPRVRLRSGAQVGEGRVEVLMNRQWGTVCDDRWNLISASVVCRLGFGSAREALFGARLGQGLGPIHL  
SEVRCRGYERTLSDCPALEGSQNGCQHENA AAVRCNVPMGFQNVRLAGGRIPEEGLLEVQVEVNGVPRWGSVC  
SENWGLTEAMVACRQLGLGFHAYKETWFWSGTPRAQEVVMMSGVRCSGTALALQQQRHGPVHCSHGGGRFLAG  
VSCMD SAPDLVMNAQLVQETAYLEDRLSQLYCAHEENCLSKSADHMDWPYGYRLLRFSTQIYNLGRITDFRPKT  
GRDSWVWHQCHRHYHSIEVFTHYDLLTLNGSKVAEGHKASFLEDTNCPTGLQRRYACANFGEQGVTVGCWDTYR  
HDIDCQWVDITDVGPGNYIFQVIVNPHYEVAESDFSNNMLQCRCKYDGHVWLNHCHTGNSTYANAELSLEQEQR  
LRNNLI

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**FIGURE 3070**

GAAAGGAGGAGAGGAAGAGAGGACTAAGAGGGGAGCAAGGCGAGGAGGCCGCGGGCGCAGCGGGCACCTGGG  
CCGTGCTGCCCCCGCGAGCAAGGCGCCGCCATTCCGCTGCTCGGGGCGCCGCCGCCGCCGCCACCGCGCCAGGG  
GCCATGCTCCCCGCGCCCCGCGCCAGCCGCCGCCCCAGGCGCGTGCGGGCCGCGGCGCGGTGCGCCTGCAGCGG  
CCCTTCCTGCGCAGCCCGCTGGGCGTGTTGCGGCTGCTGCAGCTGCTGGCCGCGCTGCCTTCTGGATCACTATC  
GCCACCAGCAAGTACCAGGGCCCCGTGCACTTCGCGCTCTTCGTGTCCGTGCTCTTCTGGCTGCTACCCCTGGGC  
CTCTACTTCCTCAGCTGCTGGGCAAGCACGAGCTGGTCCCGTGCTGGGCTCGCGCTGGCTCATGGTCAACGTG  
GCGCACGATGTGCTGGCGGCGCGCTCTACGGCGCCGCCACCGGCATCATGAGCGACCAGATGCAGCGCCACAGC  
TACTGCAACCTCAAGGATTACCGCTCCCTGCGCTTACCAGCCTTCTGGCGGCGCGCTCTGCGGCGGCGTC  
TGCCACGGCTCTACCTGCTTTCGGCGCTCTATGGCTGCGGGCGTCTGCTGCCAGGGCAAGCAGGAGGTGGCGTGA

GGCCGCCCCGCGCCGCGCGGCCCGATCGGGGCGGGGGAATCCCCGGAGACCAGCCTCCTTAATCCTTCCCC  
GCCGCGCCCCCGCGCGGGTGCGCCCTGGCACCTCTCCCTGCCCTCCAGCGTTTCCACTGTGCCCCGCGCCGGG  
AACCCTGACGCTCAGCTCCCGCCGACGGCAGCGCCGCCGCCGCCAGAATCCAGCCCAAGATCCCGACCGCCG  
CGCCGACGCGCGCTCTCCGGGACAAGCGCAGGCTGCGATCCGAGGGGCTGACACACACTCGCAGACGAGCCGC  
CCCAGGCGAAACCTCGCGGTTCTCTTCCCTTCCCTGCTGAGACTAAGACGTGGACAGGGGCGCGCAGATCCG  
GGGGAGGCTCCCAAATTGGAACAGGCTTCTGGCTGCCCCCTTCCCTCCCGCCCGTGGTTCGGAAGAGCACTCCC  
TTCCCTGGCCCTCATCCAGCCTCCGGTGCTGTAAACGCGAGCGCTGGGCCGCGGGCGGAGCTGAGGACAGGCC  
TTGGCTGGTCCCAGGATGAGCGACGAGTTTGGTTTATAGCTGGGATTGTGCTGGCATCCTGCGAAGCTCCTCCCA  
GCCGGTCTCTCTGTGCTCGGTTGTCTTGGGGTGGGGCCCATCCGCCGAGGTGGGACCGATAGGAGAAGCCGGTG  
GGTTGTACCTTACACTTGTGGAGTCTCCTCTTGCCCTACTACTCCGCTTGTCTTAAGGTTTTTGCAGGC  
CAGTGCCAAACACACACTAAGTGTCTGCGCTCTCCGTGACACAAGTCTCTTCCAGCCTTCTTACAGGCTTCT  
GCCGCCCCCTCATCTCCACCCTCCCCATATCTGTTTGCATTAGGAGTTCCACGACCATGGTGGAAATGTTAAGG  
TGAACCCCAACCCCTTCTTACAGATGGGGACCCAGAGCCTGCTCTTGGGAACAGCCAGAGTAAGATTGGAACCCAG  
ACTTGACAGTCCAGCGCTGTTTGCATTAAAAGGGTGGGTGAGTCAGGACCCCTGGCTCAGGAGCCGCTCTCCTAA  
AAGAGGGTTTTCAAGGCCAAATGGGTTTTGTCAACGGTGCTGTCTCCCTTTCTTGGAGATGCTCATTAGCTTATCAA  
AGACTGAGAAGTCCCGCTGTTACAGAAATAATTTAGTTTGTGTATTAACTGCTCCTGGGCTGGAGCAGTATTC  
CCACCTTAAGATTCCAGCATCCCTGTGCTGTCCCGCTCTCATTATGCCGAAGGGCCCAACCCATTGGCTGTG  
TTCTGTTTGAAGATTGGGGGGCGCCTTCTTCTTCTTCCCCAGGGAATTCTCTAGCAGAGGGAGGGGACCCACCC  
CAGTGAGGAAGTAGATTGCTGCTCTAGCCAGAGACCTGAAGTGGGGAATTTGAACATTCTTTTACATTGTTGGA  
GAAATGAAGCCAAAGTTATTACAGATGGTTTTCCAGGCTAAAGGAAAGTCACCTGCAAGAGATCCCGGCACTGAT  
CTGGAGCAGCTGACAGGGTGGGTCTCCCTTACCAAAGAGAAGAACCACTCTCTGGCGCTGGGGTGACCTGCTGGC  
TGGGCTGTAAAGGTTTTCCATGTTGCTGAGGCCATGGAGATTCCAGAGCTGGTCACACCGACCGCTCTCAGGGCC  
CGCTGCCCTGGGCTGGCAACACCACTTCTGGCCTTGGCTGCAGAAGCTTTCAGAGTCTTCACTGGCAGTAGGGG  
AGATGGGGAGAGGAATGATCTCTGCCAGCCCTTCTTTCCAAACCAATGCAATGGAAGAGCCAGATGGGTGAA  
GATTGATTTTGCCTTAACTCAAGAGAATTCCTGTTCTCCTTGTGCTATGATTGGACACAAGATTCTGGATACCT  
GGAACCTAGCTGTGTACTCCTGTACCCTAAACAGTGGATTGTAGTTCCAGCGTTTATTCTTTTTTCTTTTTTCA  
GATCACCATCTAAGTTACATCTTTAGCTCAGGTCCATCCTTCTCAAGATCTCCTTCTTAGCCCCCAGCCCCCTGG  
TGCTGTCTGTGGTCAGGTGACCTTACTCAGGAGCAGATATCTCCTTGGCCGCCATGGAGCCTCATCCATCCACAC  
GTGCTGTAGCATTCCAGAGCTCACTGCCCTTCTAGATGTGCTTCCCGCTTGGCTTCCAGCGGCTTGTGCTCAC  
TCTGTCTGCCAGGTATGAGAAGAACACGTAAGACCGCCACCACACTCACCCTCCCTCAAGGCCCTGTGCCATAGG  
GGTGGCCACCCGACCTGCCCCAGAATTTTGATACTGGAGGCAGTTGCATAGGTCTCCCTCTCTGGGCACCAG  
GACTCAGTCCAGCCCAAGACTACTCTGGGCAGCTCCCATCCAGTCTGGGGCCATTGTCAGACTCAGGAAAGGAT  
TTCTACAGTGTCTATAAAAGCCAAAAGAGAGAGTGGGTTTTGGGAAGAGTGAGGGTGGTTGGGGAGAGGGGACCG  
ATGTGCCTCATTGTTTGTGGTGATTACAAATATGCTTTTCTGGATAAAGTTGGTTGTTTGTCTTAAAAAAA  
AAAAAAAAAAAACTCGA

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**FIGURE 3071**

MLPPPPRQPPQARAARGAVRLQRPFLRSPLGVLRLLQLLAGAAFWITTIATSKYQGPVHFALFVSVLFWLLTLGL  
YFLTLLGKHELVPVLGSRWLMVNVAVHDVLAALYGAATGIMSDQMQRHSYCNLDYPLPCAYHAFLAAVCGGVC  
HGLYLLSALYGCGRRRCQGKQEVA

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**FIGURE 3072**

GATGGAGCCCGACCATCCTTTCTACAGCAACATCAGTAAGGATCGCAGGTATGCAGACCTCACAGAAGATCAGCT  
ACCTCCTGTGAGAGTCTGAAGGATACTATTGCCAGAGCTCTGCCCTTCTGGAATGAAGAAATAGTTCCCCAGAT  
CAAGGAGGGGAAACGTGTACTGATTGCAGCCCATGGCAACAGCCTCCGGGGCATTGTCAAGCATCTGGAGGGTCT  
CTCTGAAGAGGCTATCATGGAGCTGAACCTGCCGACTGGTATTCCCATTTGTCTATGAATTGGACAAGAACAAGTG  
AAGGCCGGCGGGGAGGATACTGTCCCGAGTGCTTCCTGGTGTGTATTAGAATCCCTTCCTGCCTTGTTTTCATG  
GCAGTGAAATGCCCTCTGGTCCTGTCCAAGTGATCTTTCAGTGATTTCTGAATCATGTTCTAGTTGCTTGACCC  
TGCCACATGGGTCCAGTGTTTCATCTGAGCATAACTGTACTAAATCCTTTTCCATATCAGTATAATAAAGGAGTG  
ATGTGCAATA

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**FIGURE 3073**

GGTTGAGGATGGGCTGGCGGCGGGTCCGGGTCCGCTGCCTGGCGCTGCGGGCGGCGGGCCATGGTGGTTTGGATT  
GAGCCGGGCCCCGGCGGGGCGCCGAGTCGGAGGGGGTGGCAGTGAGCGGCGGCAGAGGCTACGGGGCTCGGTTTG  
GCTGACTGGGGAGTCGGCAGGCGGCAGGAACCATGCGAGGCCAGCGGAGCCTGCTGCTGGGCCCCGGCCGCTCT  
GCCGCCCTCCTTCTGCTGCTGGGTTACAGGCGCCGCTGTCCACCTCTACTCCGGGGTCTAGTACAGCGCTGGC  
GCTACGGCAAGGTCTGCCTGCGCTCCCTGCTCTACAACCTCCTTTGGGGGCAGTGACACCGCTGTTGATGCTGCC  
TTGAGCCTGTCTACTGGCTGGTAGACAACGTGATCCGCTGGTTTGGAGTGGTGTTCGTGGTCTGGTGATCGTGC  
TGACAGGCTCCATTGTAGCTATCGCCTACCTGTGTGCTGCTCTCATCCTCCGAACCTACTCAGTGCCACGAC  
TCTGCTGGCATTCTCTATAGCCACTGGAATCTGATCCTGATTGTCTTCCACTACTACCAGGCCATCACCCTC  
CGCCTGGGTACCCACCCAGGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCATTTACCCCAAGC  
CAGCCCGAACACACCACTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGATCACCCTGCCCCGGCTAAACA  
ATTGTGTGGGCCACTATAACCATCGGTACTTCTTCTCTTCTGCTTTTTTCATGACTCTGGGCTGTGTCTACTGCA  
GCTATGGAAGTTGGGACCTTTTCCGGGAGGCTTATGCTGCCATTGAGAAAATGAAACAGCTCGACAAGAACAAAC  
TACAGGCGGTTGCCAACCAGACTTATCACCAGACCCACCACCCACCTTCTCCTTTTCGAGAAAGGATGACTCACA  
AGAGTCTTGTCTACCTCTGGTTCCCTGTGCAGTTCTGTGGCACTTGCCCTGGGTGCCCTAACTGTATGGCATGCTG  
TTCTCATCAGTCGAGGTGAGACTAGCATCGAAAGGCACATCAACAAGAAGGAGAGACGTCGGCTACAGGCCAAGG  
GCAGAGTATTTAGGAATCCTTACAACCTACGGCTGCTTGACAACCTGGAAGGTATTCCTGGGTGTGGATACAGGAA  
GGCACTGGCTTACTCGGGTGCTCTTACCTTCTAGTCACTTGCCCCATGGGAATGGAATGAGCTGGGAGCCCCCTC  
CCGGGTGACTGCTCACTCAGCCTCTGTGATGGCAGTGTGAGCTGGACTGTGTCAGCCACGACTCGAGCACTCAT  
TCTGCTCCCTATGTTATTTCAAGGGCCTCCAAGGGCAGCTTTTCTCAGAATCCTTGATCAAAAAGAGCCAGTGGG  
CCTGCCTTAGGGTACCATGCAGGACAATTCAAGGACCAGCCTTTTTTACCCTGCAGAAGAAAGACACAATGTGGA  
GAAATCTTAGGACTGACATCCCTTTACTCAGGCAAACAGAAGTTCCAACCCAGACTAGGGGTGAGGCAGCTAGC  
TACCTACCTTGCCCAGTGCTGACCCGACCTCCTCCAGGATACAGCACTGGAGTTGGCCACCACCTCTTCTACTT  
GCTGTCTGAAAAACACCTGACTAGTACAGCTGAGATCTTGGCTTCTCAACAGGGCAAAGATACCAGGCCTGCTG  
CTGAGGTCACTGCCACTTCTCACATGCTGCTTAAGGGAGCACAAATAAAGGTATTTCGATTTTTAAAGAT

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**FIGURE 3074A**

GGGCGGGAGGACTCGACTCGGTGGGAGCCGCTAGAGCCGGGCGCCCGGGGACGTAGCCTGTAGGGCCACCGGGTC  
CCCGTCAGAGGCGGCGGGGAGCAGCGGGGACTGCAGGCCGGGGTGCAGCGAACCGGACCCCGGGGCTGCGGC  
CCGGTGTGTGCGGAGCGTGGCGGGCGCAGCTTACCGGGCGGAGGTGAGCGCGCGCCGGCTCCTCCTGCGGCGGA  
CTTTGGGTGCGACTTGACGAGCGGTGGTTCGACAAGTGGCCTTGCGGGCCGGATCGTCCAGTGGAAGAGTTGTA  
AATTGCTTCTGGCCTTCCCTACGGATTATACCTGGCCTTCCCTACGGATTATACTCAACTTACTGTTTAGAA  
AATGTGGCCCACGAGACGCCTGGTTACTATCAAAAGGAGCGGGTGCAGGGTCCCGACTTTCCTTGAGCCTCAG  
CACCTGCTTGTGTTGGAAGGGGTATTGAATGTGACATCCGTATCCAGCTTCCTGTTGTGTCAAACAACATTGCAA  
AATTGAAATCCATGAGCAGGAGGCAATATTACATAATTCAGTTCCACAAATCCAACACAAGTAAATGGGTCTGT  
TATTGATGAGCCTGTACGGCTAAACATGGAGATGTAATACTATTATTGATCGTTCCTTCAGGTATGAAATGA  
AAGTCTTCAGAATGGAAGGAAGTCAACTGAATTTCCAAGAAAAATACGTGAACAGGAGCCAGCACGTCGTGCTC  
AAGATCTAGCTTCTCTTGACCCGTATGAGAAAGCTCAAGATTCCAAGGCCTATTCAAATCACTGAAGGAAA  
AGTTTCAGGAAATCCTCAGGTACATATCAAGAATGTCAAAGAAGACAGTACCGCAGATGACTCAAAGACAGTGT  
TGCTCAGGGAACAACTAATGTTTCTCCTCAGAACATGCTGGACGTAATGGCAGAAATGCAGCTGATCCCATTT  
TGGGGATTTTAAAGAAATTTCCAGCGTTAAATTAGTGAGCCGTTATGGAGAATTGAAGTCTGTTCCCACTACACA  
ATGCTTGACAATAGCAAAAAAATGAATCTCCCTTTTGAAGCTTTATGAGTCAGTGAAGAAAGAGTTGGATGT  
AAAATCACAAAAAGAAAATGTCCTACAGTATTGTAGAAAATCTGGATTACAACTGATTACGCAACAGAGAAAGA  
AAGTGTGATGTTTACAGGGGAGACCAACTGTTGGTCTCGCGTAAGTCAAGACCAAAATCTGGTGGGAGCGG  
CCACGCTGTGGCAGAGCCTGCTTCACCTGAACAAGAGCTTGACCAGAACAAGGGGAAGGGAAGAGACGTGGAGTC  
TGTTACAGACTCCAGCAAGGCTGTGGGCGCCAGCTTTCCTCTCTATGAGCCGGCTAAATGAAGACCCCTGTACA  
ATATTCACAGCAACAAAATTTCCACAAAAACATAAGAACAAGACCTGTATACTACTGGTAGAAGAGAATCTGT  
GAATCTGGGTAAAGTGAAGGCTTCAAGGCTGGTGATAAACTCTTACTCCCAGGAAGCTTCAACTAGAAATCG  
AACACCAGCTAAAGTGAAGATGCAGCTGACTCTGCCACTAAGCCAGAAAATCTCTCTTCCAAAACAGAGGAAG  
TATCTCTACAGATGTGAAGTTCTGCCTACGGAAGTGAATTCACAATGAGCCATTTTAACTCTGTGGCTCAC  
TCAAGTTGAGAGGAAGATCCAAAAGGATTCCCTCAGCAAGCCTGAGAAATTTGGGCACTACAGCTGGACAGATGTG  
CTCTGGGTTACCTGGTCTTAGTTTCAAGTTGATATCAACAACCTTTGGTGATTCCATTAATGAGAGTGAGGGAATACC  
TTTGAAAAGAAGGCGTGTGTCCTTTGGTGGGCACCTAAGACCTGAACTATTTGATGAAAACCTTGCTCCTAATAC  
GCCTCTCAAAGGGGAGAAGCCCCAACCAAAAGAAAGTCTCTGGTAATGCACACTCCACCTGTCTGAAGAAAAT  
CATCAAGGAACAGCCTCAACCATCAGGAAAACAAGAGTCAGGTTTCAAGAAATCCATGTGGAAGTGAAGGCACAAAG  
CTTGGTTATAAGCCCTCAGCTCCTAGTCTTAGGAAAACCTCAGTTGCCAGTGATCAACGCCGTAGGTCTGTCAA  
AACAGCCCTGCTTCCAGCAGCAATCTCAGACAGAGGTTCTAAGAGAGGAGGGAGAAAGAGTGGCAACCTGCC  
TTCAAAGAGAGTGTCTATCAGCCGAAGTCAACATGATATTTACAGATGATATGTTCCAAAAGAAGAGTGGTGC  
TTCGGAAGCAAACTGATTGTTGCAAAATCATGGGCAGATGTAGTAAACTTGGTGCAAAACAAACAACTAA  
AGTCATAAAACATGGTCTCAAAGGTCAATGAACAAAAGGCAAGAGACCTGCTACTCAAAGAAGCCTGTGGG  
CGAAGTTCACAGTCAATTTAGTACAGGCCACGCAAACTCTCCTTGTAACATAATAATAGGGAAAGCTCATACTGA  
AAAAGTACATGTGCCTGCTCGACCTACAGAGTGCTCAACAACCTTCATTTCCAAACCAAAAATGGACTTTAAGGA  
AGATCTTTCAGGAATAGCTGAAATGTTCAAGACCCAGTGAAGGAGCAACCGCAGTTGACAAGCATGTACAT  
CGCTATTTCAAATTCAGAGAATTTGCTTGGAAAACAGTTTCAAGGAACTGATTGAGGAGAAGAACCTCTGCTCCC  
CACCTCAGAGAGTTTGGAGGAAATGTGTTCTTCAGTGCACAGAATGCAGCAAAACAGCCATCTGATAAATGCTC  
TGCAAGCCCTCCCTTAAGACGGCAGTGTATTAGAGAAAATGGAAACGTAGCAAAACGCCCAGGAACACCTACAA  
AATGACTTCTCTGGAGACAAAACTTCAGATACTGAGACAGAGCCTTCAAAAACAGTATCCACTGCAACAGGTC  
AGGAAGGTCTACAGAGTTTCAAGGAATATACAGAAGCTACCTGTGGAAAGTAAGAGTGAAGAAACAAATACAGAAAT  
TGTTGAGTGCATCCTAAAAAGAGGTGAGAAGGCAACACTACTACAACAAAGGAGAGAAGGAGAGATGAAGGAAAT  
AGAAAGACCTTTTGAACATATAAGGAAAATATTGAATTAAGAAAACGATGAAAAGATGAAGCAATGAAGAG  
ATCAAGAACCTTGGGGGAGAAAATGTGCACCAATGTCTGACCTGACAGACCTCAAGAGCTTGCCTGATACAGAACT  
CATGAAGACACGGCAGTGGCCAGAAATCTCTCCAAACCAAGATCATGCCAAGGCACCAAGAGTGAGAAAGG  
CAAAATCACTAAAATGCCCTGCCAGTCATTACAACCAAGAACCAATAAACACCCCAACACACAAAAACAACAGTT  
GAAGGCATCCCTGGGGAAGTAGGTGTGAAAGAAGAGCTCCTAGCAGTCGGCAAGTTTACACGGACGCTCAGGGGA  
GACCACGCACACGCACAGAGAGCCAGCAGGAGATGGCAAGAGCATCAGAACGTTTAAAGAGTCTCCAAGCAGAT

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## FIGURE 3074B

CCTGGACCCAGCAGCCCGTGTAAGTGAAGTGGCCAAGAACGCCTAAGGAAGAGGCCAGTCACTAGA  
AGACCTGGCTGGCTTCAAAGAGCTCTTCCAGACACCAGGTCCCTCTGAGGAATCAATGACTGATGAGAAAACCTAC  
CAAAATAGCCTGCAAATCTCCACCACCAGAATCAGTGGACACTCCAACAAGCACAAAGCAATGGCCTAAGAGAAG  
TCTCAGGAAAGCAGATGTAGAGGAAGAATTCTTAGCACTCAGGAACTAACACCATCAGCAGGGAAAGCCATGCT  
TACGCCCAAACCAGCAGGAGGTGATGAGAAAGACATTAAAGCATTATGGGAAGTCCAGTGCAGAACTGGACCT  
GGCAGGAACCTTACCTGGCAGCAAAGACAGCTACAGACTCCTAAGGAAAAGGCCAGGCTCTAGAAGACCTGGC  
TGGCTTTAAAGAGCTCTTCCAGACTCCTGGTCACACCGAGGAATTAGTGGCTGCTGGTAAACCCTAAAATACC  
CTGCGACTCTCCACAGTCAGACCCAGTGGACACCCCAACAAGCACAAAGCAACGACCCAAGAGAAGTATCAGGAA  
AGCAGATGTAGAGGGAGAATCTTAGCGTGCAGGAATCTAATGCCATCAGCAGGCAAAGCCATGCACACGCCATAA  
ACCATCAGTAGGTGAAGAGAAAGACATCATATTTGTGGAACTCCAGTGCAGAACTGGACCTGACAGAGAA  
CTTAACCGGCAGCAAGAGACGGCCACAACTCCTAAGGAAGAGGCCAGGCTCTGGAAGACCTGACTGGCTTTAA  
AGAGCTCTTCCAGACCCCTGGTCATACTGAAGAAGCAGTGGCTGCTGGCAAACCTACTAAAATGCCCTGCGAATC  
TTCTCCACCAGAATCAGCAGACACCCCAACAAGCACAAAGGCAGCCCAAGACACCTTTGGAGAAAAGGGACGT  
ACAGAAGGAGCTCTCAGCCCTGAAGAAGCTCACACAGACATCAGGGGAAACCACACACACAGATAAAGTACCAGG  
AGGTGAGGATAAAAGCATCAACGCGTTTAGGGAACTGCAAAACAGAACTGGACCCAGCAGCAAGTGTAAGTGG  
TAGCAAGAGGCACCCAAAACTAAGGAAAAGGCCCAACCCCTAGAAGACCTGGCTGGCTTGAAGAGCTCTTCCA  
GACACCAAGTATGCACTGACAAGCCCACGACTCAGCAGAAAACCTACCAAAATAGCCTGCAGATCACAACCAAGCCC  
AGTGGACACACCAACAAGCTCCAAGCCACAGTCCAAGAGAAGTCTCAGGAAAGTGGACGTAGAAGAAGAAATCTT  
CGCACTCAGGAAACGAACACCATCAGCAGGCAAAGCCATGCACACACCCAAACCAGCAGTAAGTGGTGAGAAAA  
CATCTACGCATTTATGGGAAGTCCAGTGCAGAACTGGACCTGACAGAGAATTAAGTGGCAGCAAGAGACGGCT  
ACAACTCCTAAGGAAAAGGCCAGGCTCTAGAAGACCTGGCTGGCTTTAAAGAGCTCTTCCAGACACGAGGTCA  
CACTGAGGAATCAATGACTAACGATAAACTGCCAAAGTAGCTGCAAACTCTCACAACCAAGACCCAGACAAAA  
CCCAGCAAGCTCCAAGCGACGGCTCAAGACATCCCTGGGGAAAGTGGGCGTGAAGAAGAGCTCCTAGCAGTTGG  
CAAGCTCACACAGACATCAGGAGAGACTACACACACACACACAGGCCAACAGGAGATGGTAAGAGCATGAAAGC  
ATTTATGGAGTCTCCAAGCAGATCTTAGACTCAGCAGCAAGTCTAAGTGGCAGCAAGAGGCAGCTGAGAACTCC  
TAAGGGAAAGTCTGAAGTCCCTGAAGACCTGGCCGGCTTCATCGAGCTCTTCCAGACACCAAGTCACACTAAGGA  
ATCAATGACTAACGAAAAAACTACCAAAAGTATCCTACAGAGCTTCACAGCCAGACCTAGTGGACACCCCAACAAG  
CTCCAAGCCACAGCCCAAGAGAAGTCTCAGGAAAGCAGACACTGAAGAAGAATTTTAGCATTATAGGAAACAAAC  
GCCATCAGCAGGCAAAGCCATGCACACACCCAAACCAGCAGTAGGTGAAGAGAAAGACATCAACACGTTTTTGGG  
AACTCCAGTGCAGAACTGGACCAAGCAGGAAATTTACCTGGCAGCAATAGACGGCTACAACTCGTAAGGAAAA  
GGCCCAGGCTCTAGAAGAACTGACTGGCTTCAGAGAGCTTTTCCAGACACCATGCACTGATAACCCACGACTGA  
TGAGAAAACCTACCAAAAAAATCTCTGCAATCTCCGCAATCAGACCCAGCGGACACCCCAACAACACAAAGCA  
ACGGCCCCAAGAGAAGCCTCAAGAAAGCAGACGTAGAGGAAGAATTTTAGCATTACAGGAACTAACACCATCAGC  
AGGCAAAGCCATGCACACGCCCTAAAGCAGCAGTAGGTGAAGAGAAAGACATCAACACATTTGTGGGGACTCCAGT  
GGAGAACTGGACCTGCTAGGAAATTTACCTGGCAGCAAGAGACGGCCACAACTCCTAAAGAAAAGGCCAAGGC  
TCTAGAAGATCTGGCTGGCTTCAAAGAGCTCTTCCAGACACCAAGTCACTGAGGAATCAATGACCGATGACAA  
AATCACAGAAGTATCCTGCAATCTCCACAACCAAGACCCAGTCAAAACCCCAACAAGCTCCAAGCAACGACTCAA  
GATATCCTTGGGGAAAGTAGGTGTGAAAGAAGAGGTCTACAGTCGGCAAGCTCACACAGACGTCAGGGAAGAC  
CACACAGACACACAGAGAGACAGCAGGAGATGGAAGAGCATCAAAGCGTTTAAGGAATCTGCAAGCAGATGCT  
GGACCCAGCAAACTATGGAAGTGGGATGGAGAGGTGGCCAAGAACACCTAAGGAAGAGGCCCAATCACTAGAAGA  
CCTGGCCGGCTTCAAAGAGCTCTTCCAGACACCAAGACCACTGAGGAATCAACAACCTGATGACAAAACCTACCAA  
AATAGCCTGCAATCTCCACCACCAGAATCAATGGACACTCCAACAAGCACAAAGGAGGCGGCCAAAACACCTTT  
GGGGAAGAGGATATAGTGAAGAGCTCTCAGCCCTGAAGCAGCTCACACAGACACACACAGACAAAGTACC  
AGGAGATGAGGATAAAGGCATCAACGTGTTAGGGAACTGCAAAACAGAACTGGACCCAGCAGCAAGTGTAAAC  
TGGTAGCAAGAGGCAGCCAAGAATCCTAAGGGAAAAGCCCAACCCCTAGAAGACTTGGCTGGCTTGAAGAGCT  
CTTCCAGACACCAATATGCACTGACAAGCCCACGACTCATGAGAAAACCTACCAAAATAGCCTGCAGATCTCCACA  
ACCAGACCCAGTGGGTACCCCAACAATCTTCAAGCCACAGTCCAAGAGAAGTCTCAGGAAAGCAGACGTAGAGGA  
AGAATCCTTAGCACTCAGGAAACGAACACCATCAGTAGGGAAAGCTATGGACACACCCAAACCAGCAGGAGGTGA



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FIGURE 3074C

TGAGAAAGACATGAAAGCATTATGGGAACTCCAGTGCAGAAATTGGACCTGCCAGGAAATTTACCTGGCAGCAA  
AAGATGGCCACAAACTCCTAAGGAAAAGGCCAGGCTCTAGAAGACCTGGCTGGCTTCAAAGAGCTCTTCCAGAC  
ACCAGGCACTGACAAGCCACGACTGATGAGAAAACCTACCAAAATAGCCTGCAAACTCTCCACAACCAGACCCAGT  
GGACACCCAGCAAGCACAAGCAACGGCCCAAGAGAAACCTCAGGAAAGCAGACGTAGAGGAAGAATTTTTCAGC  
ACTCAGGAAACGAACACCATCAGCAGGCAAAGCCATGGACACACCAAAACCAGCAGTAAGTGATGAGAAAAATAT  
CAACACATTTGTGGAACCTCCAGTGCAGAACTGGACCTGCTAGGAAATTTACCTGGCAGCAAGAGACAGCCACA  
GACTCCTAAGGAAAAGGCTGAGGCTCTAGAGGACCTGGTTGGCTTCAAAGAATCTTCCAGACACCAGGTACACAC  
TGAGGAATCAATGACTGATGACAAAATCAGAGAAGTATCCTGTAAATCTCCACAGCCAGAGTCATTCAAACCTC  
AAGAAGCTCCAAGCAAAGGCTCAAGATACCCCTGGTGAAAGTGGACATGAAAGAAGAGCCCTAGCAGTCAGCAA  
GCTCACACGGACATCAGGGGAGACTACGCAACACACACAGAGCCAACAGGAGATAGTAAGAGCATCAAAGCGTT  
TAAGGAGTCTCCAAAGCAGATCCTGGACCCAGCAGCAAGTGTAAGTGGTAGCAGGAGGCAGCTGAGAATCGTAA  
GGAAAAGGCCCGTGCTCTAGAAGACCTGGTTGACTTCAAAGAGCTCTTCTCAGCACCAGGTCACACTGAAGAGTC  
AATGACTATTGACAAAAACAAAAATTCCCTGCAATCTCCCCACCAGAACTAACAGACACTGCCACGAGCAC  
AAAGAGATGCCCCAAGACACGTCCCAGGAAAGAAGTAAAGAGGAGCTCTCAGCAGTTGAGAGGCTCAGCAAAAC  
ATCAGGGCAAAGCACACACACACAAAGAACCAGCAAGCGGTGATGAGGGCATCAAAGTATTGAAGCAACGTGC  
AAAGAAGAAACCAAACCCAGTAGAAGAGGAACCCAGCAGGAGAAGGCCAAGAGCACCTAAGGAAAAGGCCCAACC  
CCTGGAAGACCTGGCCGGCTTCACAGAGCTCTCTGAAACATCAGGTACACTCAGGAATCACTGACTGCTGGCAA  
AGCCACTAAAATACCCCTGCGAATCTCCCCACTAGAAGTGGTAGACACCACAGCAAGCACAAGAGGCATCTCAG  
GACACGTGTGCAGAAGGTACAAGTAAAGAAGAGCCTTCAGCAGTCAAGTTCACACAAACATCAGGGGAAACCAC  
GGATGCAGACAAAGAACCAGCAGGTGAAGATAAAGGCATCAAAGCATTGAAGGAATCTGCAAAACAGACACCGGC  
TCCAGCAGCAAGTGTAAGTGGCAGCAGGAGACGGCCAAGAGCACCCAGGGAAAGTGCCCAAGCCATAGAAGACCT  
AGCTGGCTTCAAAGACCCAGCAGCAGGTACACTGAAGAATCAATGACTGATGACAAAACCACTAAAATACCCCTG  
CAAATCATCACCAGAACTAGAAGACACCGCAACAAGCTCAAAGAGACGGCCAGGACACGTGCCAGAAAGTAGA  
AGTGAAGGAGGAGCTGTTAGCAGTTGGCAAGCTCACACAAACCTCAGGGGAGACCACGCACACCGACAAAGAGCC  
GGTAGGTGAGGGCAAAGGCACGAAAGCATTAAAGCAACCTGCAAAGCGGAAGCTGGACGCAGAAGATGTAATTGG  
CAGCAGGAGACAGCCAAGAGCACCTAAGGAAAAGGCCCAACCCCTGGAAGATCTGGCCAGCTTCAAAGAGCTCTC  
TCAAACACCAGGCCACACTGAGGAACCTGGCAAATGGTGCTGCTGATAGCTTTACAAGCGCTCAAAGCAAACACC  
TGACAGTGGAAAACCTCTAAAAATATCCAGAAGAGTCTTCGGGCCCTTAAAGTAGAACCCGTGGGAGACGTGGT  
AAGCACCAGAGACCCCTGTAAAATCACAAGCAAAAGCAACACTTCCCTGCCCCACTGCCCTTCAAGAGGGGAGG  
TGGCAAAGATGGAAGCGTCACGGGAACCAAGAGGCTGCGCTGCATGCCAGCACCAGAGGAAATGTGGAGGAGCT  
GCCAGCCAGCAAGAAGCAGAGGGTTGCTCCAGGGCAAGAGGCAAATCATCCGAACCCGTGGTCATCATGAAGAG  
AAGTTTGAGGACTTCTGCAAAAAGAATTGAACCTGCGGAAGAGCTGAACAGCAACGACATGAAAACCAACAAAGA  
GGAACACAAATTACAAGACTCGGTCCCTGAAAATAAGGGAATATCCCTGCGCTCCAGACGCCAAAATAAGACTGA  
GGCAGAACAGCAAACTAAGTCTTTGTATTAGCAGAAAAGAATAGAAATAAACAGAAATGAAAAGAAGCCCAT  
GAAGACCTCCCAGAGATGGACATTCAAGATCCAGATGATGGAGCCCGGAAACCCATACCTAGAGACAAAGTCAC  
TGAGAACAAAAGGTGCTTGAGGTCTGCTAGACAGAATGAGAGCTCCAGCCTAAGGTGGCAGAGGAGAGCGGAGG  
GCAGAAGAGTGCGAAGGTTCTCATGCAGAATCAGAAAGGGAAAGGAGAAGCAGGAAATTCAGACTCCATGTGCCT  
GAGATCAAGAAAGACAAAAGCCAGCCTGCAGCAAGCACTTTGGAGAGCAATCTGTGCAGAGAGTAACGCGGAG  
TGTCAGAGGTGTGCAGAAAATCCAAAGAAGGCTGAGGACAATGTGTGTGTCAAGAAAATAAGAACCAGAAGTCA  
TAGGGACAGTGAAGATATTTGACAGAAAATCGAACTGGGAAAAATATAATAAAGTTAGTTTTGTGATAAGTTCT  
AGTGCAAGTTTTGTGATAAATTACAAGTGAATCTGTAAAGTAAAGGCTGTCACTGTGCTTAAAGGGAAGAACTTT  
GGATTGCTGGGTCTGAATCGGCTTCATAAACTCCACTGGGAGCACTGCTGGGCTCCTGGACTGAGAATAGTTGA  
ACACCGGGGGCTTTGTGAAGGAGTCTGGGCCAAGGTTTGCCCTCAGCTTTGCAGAATGAAGCCTTGAGGTCTGTC  
ACCACCCACAGCCACCCTACAGCAGCCTTAAGTGTGACACTTGCCACACTGTGTCGTCGTTTGTGCTATGTC  
CTCCAGGGCACGGTGGCAGGAACAACTATCCTCGTCTGTCCCAACACTGAGCAGGCACTCGGTAAACACGAATGA  
ATGGATGAGCGCACGGATGAATGGAGCTTACAAGATCTGTCTTTCCAATGGCCGGGGGCATTGGTCCCCAAATT  
AAGGCTATTGGACATCTGCACAGGACAGTCTATTTTTGATGTCTTTCTTTCTGAAAATAAAGTTTTGTGCTT  
TGGAGAATGACTCGTGAGCACATCTTTAGGGACCAAGAGTGACTTTCTGTAAGGAGTGACTCGTGGCTTGCCCTG

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**FIGURE 3074D**

GTCTCTTGGGAATACTTTTCTAACTAGGGTTGCTCTCACCTGAGACATTCTCCACCCGCGGAATCTCAGGGTCCC  
AGGCTGTGGGCCATCACGACCTCAAACCTGGCTCCTAATCTCCAGCTTTCCTGTGATTGAAAGCTTCGGAAGTTTA  
CTGGCTCTGCTCCCGCCTGTTTTCTTCTGACTCTATCTGGCAGCCCGATGCCACCCAGTACAGGAAGTGACACC  
AGTACTCTGTAAAGCATCATCATCCTTGGAGAGACTGAGCACTCAGCACCTTCAGCCACGATTTTCAGGATCGCTT  
CCTGTGAGCCGCTGCCTCCGAAATCTCCTTTGAAGCCCAGACATCTTCTCCAGCTTCAGACTTGTAGATATAA  
CTCGTTTCATCTTCATTTACTTTCCACTTTGCCCCCTGTCTCTCTGTGTTCCCAAATCAGAGAATAGCCCGCCA  
TCCCCCAGGTCACCTGTCTGGATTCTCCCCATTACCCACCTTGCCAGGTGCAGGTGAGGATGGTGCACCAGAC  
AGGGTAGCTGTCCCCAAAATGTGCCCTGTGCGGGCAGTGCCCTGTCTCCACGTTTGTTCCTCCAGTGTCTGGCG  
GGGAGCCAGGTGACATCATAAATACTTGCTGAATGAATGCAGAAATCAGCGGTACTGACTTGTACTATATTGGCT  
GCCATGATAGGGTTCTCACAGCGTCATCCATGATCGTAAGGGAGAATGACATTCTGCTTGAGGGAGGGAATAGAA  
AGGGGCAGGGAGGGGACATCTGAGGGCTTCACAGGGCTGCAAAGGGTACAGGGATTGCACCAGGGCAGAACAGGG  
GAGGGTGTTCAAGGAAGAGTGGCTCTTAGCAGAGGCACCTTGGAAGGTGTGAGGCATAAATGCTTCCTTCTACGT  
AGGCCAACCTCAAACCTTTCAGTAGGAATGTTGCTATGATCAAGTTGTTCTAACACTTTAGACTTAGTAGTAATT  
ATGAACCTCACATAGAAAAATTTTCATCCAGCCATATGCCTGTGGAGTGGAATATTCTGTTTAGTAGAAAAATCCT  
TTAGAGTTCAGCTCTAACCCAGAAATCTTGCTGAAGTATGTGAGCACCTTTTCTCACCTGGTAAGTACAGTATTT  
CAAGAGCACGCTAAGGGTGGTTTTTCATTTTACAGGGCTGTTGATGATGGGTAAAAATGTTTCATTTAAGGGCTAC  
CCCCGTGTTTAATAGATGAACACCACCTTCTACACAACCTTCCTTGGTACTGGGGGAGGGAGAGATCTGACAAATA  
CTGCCCATTCCCCTAGGCTGACTGGATTGAGAACAAATACCCACCCATTTCACCATGGTATGGTAACTTCTCT  
GAGCTTCAGTTTCCAAGTGAATTTCCATGTAATAGGACATTCCCATTAATAACAAGCTGTTTTTACTTTTTTCGCC  
TCCCAGGGCCTGTGGGATCTGGTCCCCCAGCCTCTCTTGGGCTTTCTTACACTAACTCTGTACCTACCATCTCCT  
GCCTCCCTTAGGCAGGCACCTCCAACCACACACACTCCCTGCTGTTTTCCCTGCCTGGAACCTTCCCTCCTGCC  
CCACCAAGATCATTTTCATCCAGTCCTGAGCTCAGCTTAAGGGAGGCTTCTTGCCCTGTGGGTTCCTCACCCCAT  
GCCTGTCTCCAGGCTGGGGCAGGTTCTTAGTTTGCCTGGAATTGTTCTGTACCTCTTTGTAGCACGTAGTGTG  
TGGAACCTAAGCCACTAATTGAGTTTCTGGCTCCCTCCTGGGGTTGTAAGTTTGTTCATTTCATGAGGGCCGAC  
TGCATTTCTGGTTACTCTATCCAGTGACCAGCCACAGGAGATGTCCAATAAAGTATGTGATGAAATGGTCTT

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**FIGURE 3075**

CGCGGACGGGGCGCGGGCGGACGATGGAACCTCCACATCTGGAGCACCGGCTGCAAGTTGCCAGCGTCGCCAAGGA  
GAGTATCCCCTGTTACCTACGGCCTGATCAAACCTTGCTTCTGTCCTCCAAGACCAGAAGATGATGATTATT  
CTCCACCGTCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCACCAGTCCCGGAACCCGCCAATGCTGGGAAGC  
GGAAAGTGAGGGAGTTCAACTTCGAGAAATGGAATGCTCGCATCACTGATCTACGTAAACAAGTTGAAGAATTGT  
TTGAAAGGAAATATGCTCAAGCCATAAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCTAGTCTCATG  
TTGAAGATCTTTATGTAGAAGGACTTCCTGAAGGAATTCCTTTTGAAGGCCATCTACTTACGGAATTCCTCGCC  
TGGAGAGGATATTACTTGCAAAGGAAAGGATTCGTTTTGTGATTAAGAAACATGAGCTTCTGAGTTCAACACGTG  
AAGATTTACAGCTTGATAAGCCAGCTTCAGGAGTAAAGGAAGAATGGTATGCCAGAATCACTAAATTAAGAAAGA  
TGGTGGATCAGCTTTTTCTGCAAAAAATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAAA  
AATTTGAGGCACACCCGAATGATCTGTACGTGGAAGGACTGCCAGAAAACATTCTTTCCGAAGTCCCTCATGGT  
ATGGAATCCCAAGGCTGGAAAAATCATTCAAGTGGGCAATCGAATTAATTTGTTATTAAAGACCAGAACTTC  
TGACTCACAGTACCCTGAAGTTACTCAGCCAAGAACGAATACACCAGTCAAAGAAGATTGGAATGTCAGAATTA  
CCAAGCTACGGAAGCAAGTGAAGAGATTTTAAATTTGAAATTTGCTCAAGCTCTTGGACTCACCGAGGCGAGTAA  
AAGTACCATATCCTGTGTTGAATCAAACCCGGAGTTCTTGTATGTGGAAGGCTTGCCAGAGGGGATTCCCTTCC  
GAAGCCCTACCTGGTTTGAATTCACGACTTGAAAGGATCGTCCACGGGAGTAATAAAATCAAGTTCGTTGTTA  
AAAAACCTGAAGTAGTTATTTCTACTTGCTTCTGGGATGGCTAGTAAATAAACACTAAAGCTTTGCAGTCCC  
CCAAAAGACCACGAAGTCCCTGGGAGTAATCAAAGGTTCTGAAATTGAGGTCACCGTGAAGGCCCTAATAACA  
ACAATCCTCAAACCTCAGCTGTTGCAACCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACGAGGGA  
GAGAGTTTTCCTTTGAGGCTTGAATGCCAAAATCACGGACCTAAACAGAAAGTTGAAAATCTCTTCAATGAGA  
AATGTGGGGAAGCTCTTGGCCTTAAACAAGCTGTGAAGTGCCGTTTCGCGTTATTTGAGTCTTTCCCGGAAGACT  
TTTATGTGGAAGGCTTACCTGAGGGTGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGA  
TACTCAGAAACAAAGCCAAAATTAAGTTCATCATTAAAAAGCCCGAAATGTTTGAGACGGCGATTAAAGGAGAGCA  
CCTCCTCTAAGAGCCCTCCCGAATAAATTAATTCATCACCCTAATGTTAATACTACTGCATCAGGTGTTGAAGACC  
TTAATCATCTTACGGTGACAATTCAGATGATGATAATGAAAGACTCTCGAAAGTTGAAAAGCTAGACAGCTAA  
GAGAACAAGTGAATGACCTCTTTAGTCGGAAAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCTT  
ACAGGAAAATCACAATTAACCTGGCTGTGTGGTGGTTGATGGCATGCCCCGGGGGTGTCCTTCAAAGCCCCCA  
GCTACCTGGAAATCAGCTCCATGAGAAGGATCTTAGACTCTGCCGAGTTTATCAAATTCACGGTCATTAGACCAT  
TTCCAGGACTTGTGATTAATAACCAGCTGGTTGATCAGAGTGAGTCAAAAGCCCCGTGATACAAGAATCAGCTG  
AACCAGCCAGTTGGAAGTTCCAGCCACAGAAGAAATAAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAAC  
CAGACCCACGTTGGTAGACCTCTTCCCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTCGGACCTGTT  
ACTACCCCAAGCTGTGTAATATACTTGTATAACAGAAATACCTTCTATACAAACCTTTTTTTCTACTTTTAGATA  
GAAATGTCTACTTTTTTCAGCAGTTCTGTGAATTAAGAGCAGAGTGACTGTGGGTCTGGAATGGCTGGTGTACTT  
GGGAATGTACTATCAGGATTTTACAGCAATGCTGGGAAATGACAGGGAAAATGACAGGAATGAATCTCACCAGAT  
TTTTTATGTACTCAGCAGAGCCTTGAGTTACGGTGTATTTTCCAATCAAGTGAAGATATCTCCTACTTCTCCT  
ACTGGAACATCTCAGCTTCTGCAGTGAAGAAAATTCCTGTGATAGTTCAGTTCTTTAGTTTTTCTATTTGAAAA  
AAAAAATCATTTAAATGATCCTTTGTTACGGCTCTCCTTAATGACTGAGTGAACAGTTCCCTATCTGTATATTT  
GACTAAACCTTTTCTAAGCTATCTCTCATGGTTCCTATGTTTTTTTATCATAATTAAGCAAAACCATCTGGA  
TCACCTAACAGTCAGAGGTGAGTATCTCAGCGTGTGAATATAGAGGAAATACAGAGAGAACCTCTTCCACTTTT  
ACTTTTCGTCCAAATAAAATGCATGGTGTACCAGAAGTTGAAGATCGGGTTGAGGATTGGGGCTAGCTCGATGAC  
ACTAAGGCCCCAACATCGCGGGACCTGCTGTGGCGCGGATTCTTAGGAACGCTGTTCTAGCCGGCCCCCTCTCCA  
GGGGTCGCCGTGGCCGGCATTATTTCTAGTTCCTTCTTGTAAACCCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGG  
TCAGGGGGCTAAGGATGCAACCTCTGACGTTCTGCGCCTTCTAGGAGAGTCTTACATGTGTTGAGATTTACAA  
GCAATGCGAGTTGAAAATACCAGCTCTACAAGAAGCTAGGCTCTGTGACGGCATAGTTTTTCAGTAGCTTTATCA  
CAATATTACAATGGAGAATTATATGACATGGTAGCAGAAATAGGCCCTTTTATGTGTTGCTTCTATTTTACCTC  
AAATTGTAGATATAGGGTAATCAATAAAATCCATCCATGCCTTTTACACACT

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**FIGURE 3076**

AATTCCTGTCCTCAGGCGCTGTCAGATCTGTGGTTTTCTACTTGAAGGACACAATGTTTTCCAACTAGCACAT  
TTGCAGAGGTTTGTCTACTTAGTCGCGGAGTTCATTCTTCAGTGGCTTCTGCTACATCTGTTGCAACTAAAAA  
ACAGTCCAAGGCCCTCCAACCTCTGATGACATTTTTGAAAGGGAATATAAGTATGGTGCACACAACCTACCATCCT  
TTACCTGTAGCCCTGGAGAGAGGAAAAGGTATTTACTTATGGGATGTAGAAGGCAGAAAATATTTTGACTTCCTG  
AGTTCTTACAGTGCTGTCAACCAAGGGCATTGTCAACCCCAAGATTGTGAATGCTCTGAAGAGTCAAGTGGACAAA  
TTGACCTTAACATCTAGAGCTTTCTATAATAACGTACTTGGTGAATATGAGGAGTATATTACTAACTTTTCAAC  
TACCACAAAGTTCTTCCTATGAATACAGGAGTGGAGGCTGGAGAGACTGCCTGTAACTAGCTCGTAAGTGGGGC  
TATACCGTGAAGGGCATTGAGAAATACAAAGCAAAGATTGTTTTTGCAGCTGGGAACCTCTGGGGTAGGACGTTG  
TCTGCTATCTCCAGTTCCACAGACCCAACCAAGTTACGATGGTTTTGGACCATTATGCCGGGATTTCGACATCATT  
CCCTATAATGATCTGCCCGCACTGGAGCGTGCTCTTCAGGATCCAAATGTGGCTGCGTTTCATGGTAGAACCAATT  
CAGGGTGAAGCAGGCGTTGTTGTTCCGGATCCAGGTTACCTAATGGGAGTGCGAGAGCTCTGCACCAGGCACCAG  
GTTCTCTTTATTGCTGATGAAATACAGACAGGATTGGCCAGAAGTGGTAGATGGCTGGCTGTTGATTATGAAAAT  
GTCAGACCTGATATAGTCTCCTTGGAAAGGCCCTTTCTGGGGGCTTATACCCTGTGCTGTCAGTGCTGTGTGAT  
GATGACATCATGCTGACCATTAAAGCCAGGGGAGCATGGGTCCACATACGGTGGCAATCCACTAGGCTGCCGAGTG  
GCCATCGCAGCCCTTGAGGTTTTAGAAGAAGAAAACCTTGCTGAAAATGCAGACAAATTGGGCATTATCTTGAGA  
AATGAACCTCATGAAGCTACCTTCTGATGTTGTAACCTGCCGTAAGAGGAAAAGGATTATTAACGCTATTGTCATT  
AAAGAAACCAAAGATTGGGATGCTTGGAAAGGTGTGTCTACGACTTCGAGATAATGGACTTCTGGCCAAGCCAACC  
CATGGCGACATTATCAGGTTTGCGCCTCCGCTGGTGATCAAGGAGGATGAGCTTCGAGAGTCCATTGAAATTATT  
AACAAGACCATCTTGTCTTTCTGAGGGTAGCCAGCTGTTTTAGTGGTCCCTGGGAGCCAGCTGGAGACAGGTGG  
TCCTGTAAAAGCTTTATTCCTAATGTGGGCACATTCCACTCCCATGAGTCTTCAAAAACCTTTTTTTTGAATATA  
TTTTTTTCAGTTGATACATAATAGAACAACGTTTATGAACCTGCCGTTTGCTTTGTAACGTAACATAAATAATGTA  
ATGGCATCTATATTAGTTGAAGTGTTTTGATGTGCATGTGTACTTCCTAAGGTGAAATGCATCTATATACAGAC  
AGCCTCTAAATCAAGTCTTCAGTATAATTGATATAATGTTTTATAATTTCTCTACTGGTATAAGTGTTCATAT  
TTGAAAAAGTTATCTCTGGGTATTGCATAAAAGGCTTCATCTTATAAAGTGAATCATTGTTATTGAATTTTAGG  
AAGGATTAATGGTTAAGTGATATAAAATACTAATATTAAGTAAACTTCATATTGGCCAACACCAGGGTTGTATT  
CTATGGATGTCATTATTTGAATTAAGAATTAGTGTTTAAACATTCTAAATTGTTTTGAGTGCTTGATTATAATT  
TGTAATAAATGTTTTATTTTCAATACTTCTTTAAATTTAAATAAAGCTTATATTTCAAATGTC

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**FIGURE 3077**

MFSKLAHLQRFVLSRGVHSSVASATSVATKKTQGPPTSDDIFEREYKYGAHNYHPLPVALERGKGIYLWDVEG  
RKYFDLSSYSAVNQGHCHPKIVNALKSQVDKLTLSRAFYNNVLGEYEEYITKLFNYHKVLPMTGVEAGETAC  
KLARKWGYTVKGIQKYKAKIVFAAGNFWGRTLSAISSSTDPTSVDGFGPFMPGFDIIPYNDLPALERALQDPNVA  
AFMVEPIQGEAGVVVPDPGYLMGVRELCTRHQVLFIADEIQTLARTGRWLAVDYENVRPDIVLLGKALSGGLYP  
VSAVLCDDDIMLTIKPGEHGSTYGGNPLGCRVAIAALEVLEENLAENADKLGII LRNELMKLPSDVVTAVRGKG  
LLNAIVIKETKDWDWKVCLRLRDNGLLAKPTHGDIIRFAPPLVIKEDELRESIEIINKTILSF

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**FIGURE 3078**

GCCGCCGCCGCCACACCGGCCCTTCGGGAGCGTCTGAGGAGGCGCGGGCCGCTGCGGGCTCGGGCGCCGACGCG  
GCCGCCCGGAGCCCTGGACGAGGCCACGAGCGCTCGCCCCGACCCAGCCGCCGATGTCCTCAAAATGGAG  
GCAGCGGGGCGGCGCGCTGAAGAAAGCGGCGCTGTGGGCGCGGAGTAGGGGCCGGGCGGAGGCGGTGGCGGG  
ATGGGGCTGCTGCTCATGATCTGGCGTCGGCCGTGCTGGGTTCCTTCCTCACGCTCCTCGCCCAGTTCTTCCTG  
CTGTACCGCAGACAGCCCGAGCCGCGGCGGACGAGGCCGCCCGCGGGCGAGGGCTTCCGCTACATCAAGCCA  
GTGCCGGGCTGCTCCTAAGGGAGTACCTTTATGGCGGCGCGGGATGAGGAGCCCTCCGGAGCGGCCCCGTAG  
GGCGGCGGACCCCCACCGCGGCCCGGAGACCCCCGCCCGCGGAGACTTGCTACTTCCTCAACGCC  
ACCATCCTATTCTGTTCGGGAGTTGCGGGACACCGCGCTGACCCGCCGCTGGGTACCAAGAAGATCAAGGTG  
GAGTTCGAGGAGCTGCTGCAGACCAAGACGGCCGGGCGCTGCTGGAGGGGCTGAGCCTGCGGGACGTGTTCTG  
GGCGAGACGGTGCCCTTCATCAAGACCATCCGGCTCGTGCGGCCAGTCGTGCCCTCGGCCACCGGGGAGCCCGAT  
GGCCCTGAAGGGGAGGCGCTGCCCGCGCCTGCCCGAGGAGCTGGCCTTCGAGGCGGAGGTGGAGTACAACGGG  
GGCTTCCACCTGGCCATCGACGTGGACCTGGTCTTCGGCAAGTCCGCTACTTGTTTGTAAGCTGTCCCGCGTG  
GTGGGAAGGCTGCGCTTGGTCTTTACGCGCGTGCCCTTACCCACTGGTTCCTTCCTTCGTGGAAGACCCGCTG  
ATCGACTTCGAGGTGCGCTCCAGTTTGAAGGGCGGCCATGCCCGAGCTCACCTCCATCATCGTCAACCAGCTC  
AAGAAGATCATCAAGCGCAAGCACACCTTACCGAATTACAAGATCAGGTTGAATTAATAAAAGGAAATTTACAAA  
GTGTTGGACTTACACTTCGTCTTGTCAGTCAACTGATGGGTATGCTGGGCACGTATCATTGAAACTGTGGCTC  
CAAACCTGCGCTGCTGCAATTGCAGATCTTCAGCGGGGAGATCGACTTATCGCCATTGGAGGTGTGAAAATCACAT  
CAACACTGCAAGTGTGAAGCTTATCAAGCAGGCTGGTGACCGAGTCCTGGTGTACTATGAAAGGCCTGTTGGCC  
AGAGTAATCAAGGTGCAGTGTGCAAGATAACTTTGGCCAGTTGGAAGAAAACCTTTTTGTCAAGCTCATGCCAAT  
CGGGTTATGAAGAGGAAGCTGCCGGGTTGACAGTAGATACTGAAAGTAGAGAGCTGGATTCTGAATTTGAAGACT  
TGGCAAGTGATGTCAGAGCACAAAATGAGTTCAAAGATGAGGCACAATCATTAAAGTCATAGTCCCAAACGTGTTT  
CAACAACACTTTCTATTAAACCCCTTGGAGCTATATACCAGTTTTAAACCGTAAATTAGCTGTAGGAAGTCACC  
CACTACCACCGAAAATTCAGTCCAAAGATGGAAATAAACCTCCACCCCTAAAAACTTCTGAGATAACAGACCCAG  
CACAAGTGCAAAACCAACCCAAGGATCTGCTTTCAAACCCTGTGCCACCACGACCACAAGCGAAAGTTCCTT  
TGCCTTCCGCCGATGCTCCAAATCAGGCAGAACAGATGTTCTCGTTGAAAAGCCAGAGAAGGTGGTGCCACCTC  
CTCTTTGATAGATAAATCTGCTGAAAAGCAAGCAAAAAATGTGGATGCCATAGACGATGCAGCTGCACCTAAGCAAT  
TTTTAGCAAAGCAAGAAGTGGCCAAAGATGTCACTTCAGAACTTCCTGCCCTACTAAGGACAGTTCGGACGACC  
GTCAAACATGGGAATCATCAGAAATTTTATCGTAATAAGCTAGGAAAATGGACAAGAACCAGAGCATCTGTGTT  
TGTTTGACATAGAAGCCTGTCACAGGTACTTAAACATTGCATTGTGGTGCAGGGATCCTTTCAAGTTGGGAGGTC  
TCATCTGTTTGGGGCATGTAGTTTTAAACTTGAAGATGTGGCTTTAGGATGCCCTAGCTACATCAAACACGGAAT  
ACCTTTCCAAATTGAGACTGGAAGCCCCCTCACCTAAGGCTATAGTCACTAGAACCGCACTACGCAATCTGAGTA  
TGCAAAAGGGATTCAATGACAAAATTTGCTATGGTGACATTACTATTCACTTCAAATATTTGAAAGAAGGAGAAT  
CAGACCACCATGTAGTTACTAACGT

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**FIGURE 3079**

MGLLLMILASAVLGSFLTLLAQFFLLYRRQPEPPADEAARAGEGFRYIKPVPGLLLREYLYGGGRDEEPSGAAP  
GGATPTAAPETPAPPTRETCYFLNATILFLFRELRDTALTRRWVTKKIKVEFEELLQTKTAGRLLEGLSLRDVFL  
GETVPFIKTIRLVRPVVPSATGEPDGPEGEALPAACPEELAFEAEVEYNGGFHLAIDVDLVFGKSAYLFVKLSRV  
VGRLRLVFTRVPFTHWFFSFVEDPLIDFEVRSQFEGRPMPQLTSIIVNQLKKIKRKHTLPNYKIRLN

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**FIGURE 3080**

AATCAAGAGGTTCCAATCTTTGIGTTCACTTTAAGAACACCATGAACTGCTCAGGCCATCAAGGGTATACATAT  
ATGAAAAGCCAAGAAGTATCTGAAAGATGTCACCTTTACAGAAACAGTGTGTACCATTCTACGTTACAATGGTGG  
AGTTAGCAGGTGTACGCAGGCCAAGCAGTGGGGCTGGACACAAGGTCGGTGGCCCCAAAAAGAGTGCTGAATTCTC  
TGGTCATTGAGCACATCCAAGTGAACAAAACACCTAAGATGCGCCGCCGGACCCACAGAGCTCATGGTCGGATTA  
ACCCATACATGAGCTCTCCCTGCCACATTGAGATGATCCTTACGGAAAAGGAACAGATTGTTCTAAATCAGAAG  
AGGAGGTTGCCCAGAAGAAAAAGATATCCAGAAGAACTGAAGAAACAAAACTTATGGCACAGGAGTAAATTC  
AGCATTAAAATAAATGTAATTAAAAGG



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**FIGURE 3081**

MSLYRNSVYHSYVTMVELAGVRRPSSGAGHKVGGPKRVLNSLVIEHIQVNKTPKMRRRTHRAHGRINPYMSSPCH  
IEMILTEKEQIVPKSEEEVAQKKKISQKKLKKQKLMAQE

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**FIGURE 3082A**

GGCGACTGCTGGCGAGGCGCGTGGGACCTTACGCTGGTTCCCTTCGTCCTCTCCCGCCCCGGGCCACTAGAG  
AGTTCGCTGACGCCGGGTGAGCTGAGCCTGCCGCCAAGATGCCGGCCTATTTTCAGAGGCCGAAATGCCCTCA  
AACGCGCCAACGAATTTCTTGAGGTTGGCAAAAGCAGCCTGCTCTGGATGTTCTTTATGATGTTATGAAAAGTA  
AAAAACATAGAACATGGCAAAAGATACACGAACCAATTATGTTGAAATACTTGGAACTTGCGTGGATCTTCGCA  
AGAGCCACTTGGCAAAGGAGGGGTTATACCAGTATAAGAACATTTGTCAACAGGTGAACATAAAATCTCTGGAGG  
ATGTTGTTAGGGCATATTTGAAAATGGCAGAGGAAAAAACTGAAGCTGCTAAAGAAGATCTCAGCAGATGGTCT  
TAGATATAGAGGATCTAGATAATATTCAAACCTCTGAGAGTGTTCTCCTAAGTGCTGTAAGTGGTGAAGACACTC  
AGGATCGTACTGACAGATTACTTTTAACTCCATGGGTTAAATTCCTGTGGGAGTCTTACAGGCAGTGTTTGGACC  
TTCTTAGAAACAATTCTAGAGTAGAGCGCTGTACCATGATATTGCCAGCAAGCTTTCAAATCTGCCTCCAAT  
ACACGCGTAAGGCTGAATTCCGTAACTGTGTGACAATTTGAGAATGCACTTATCGCAGATTCAGCGCCACCATA  
ACCAAAGTACGGCAATCAATCTTAATAATCCAGAGAGCCAGTCCATGCATTGGAAACCAGACTTGTTTCAGCTGG  
ACAGTGCTATCAGCATGGAATTGTGGCAGGAAGCATTCAAAGCTGTGGAAGATATTACGGGCTATTCTCCTTGT  
CTAAAAAACACCTAAACCTCAGTTGATGGCAAATTACTATAACAAAGTCTCAACTGTGTTTTGGAATCTGGAA  
ATGCTCTTTTTTATGCATCTACACTCCATCGTCTTTACCATCTCTCTAGAGAAATGAGAAAGAATCTCACACAAG  
ATGAGATGCAAAGAATGCTACTAGAGTCTTTTAGCCACTCTTTCCATCCCTATTACTCTGAGCGTACGGATA  
TTGCTCGACTTCTGGATATGGATGGCATTATAGTTGAAAAACAGCGTCGCCCTGCAACACTACTAGGTCTTCAAG  
CCCCACCGACACGAATTGGCCTTATTAATGATATGGTCAGATTTAATGTACTACAATATGTTGTCCCAGAAGTGA  
AAGACCTTTACAATTGGCTTGAAGTAGAATTTAACCCATTAAACCTCTGTGAGCGAGTCACAAAGGTTCTAAAT  
GGGTTAGGGAACAACCTGAAAAGGAACCGGAATTGCAGCAGTATGTGCCACAACCTGCAAAACAACACCATCCTCC  
GCCTTCTGCAGCAGGTGTACAGATTTATCAGAGCATTGAGTTTTCTCGTTTGACTTCTTTGGTTCCCTTTTGTG  
ATGCTTTCCAACCTGGAACGGGCCATAGTAGATGCAGCCAGGCATTGCGACTTGCAAGTTGCTATTGATCACACTT  
CTCGGACCCTGAGTTTTGGATCTGATTTGAATTATGCTACTCGAGAAGATGCTCCGATTGGTCTCATTTGCAAA  
GCATGCCCTCAGAGCAGATAAGAAACCAGCTGACAGCCATGTCCTCAGTACTTGCAAAAGCATTGAAGTCATTA  
AACCAGCTCATATACTGCAAGAGAAAGAAGAACAGCATCAGTTGGCTGTCACTGCATACCTTAAAAATTACGAA  
AAGAGCACCAGCGGATCCTGGCTCGCCGCCAGACAATTGAGGAGAGAAAAGAGCGCCTTGAGAGTCTGAATATTC  
AGCGTGAGAAAGAAGAATTGGAACAGAGGGAAGCTGAACCTCAGAAAGTGCGGAAGGCTGAGGAAGAGAGGCTGC  
GCCAGGAAGCAAAGGAGAGAGAGAAGGAGCGTATCTTACAGGAACATGAACAAATCAAAAAGAAAACCTGTCCGAG  
AGCGTTTGGAGCAGATCAAGAAAACAGAACTGGGTGCCAAAGCATTCAAAGATATTGATATTGAAGACCTTGAGG  
AATTGGATCCAGATTTTATCATGGCTAAACAGGTTGAACAACCTGGAGAAAGAAAAGAAAGAACTTCAAGAACGCC  
TAAAGAATCAAGAAAAGAAGATTGACTATTTTGAAAGAGCCAAACGTTTGGAAGAAATTCCTTTGATAAAGAGCG  
CTTACGAGGAACAGAGAATTAAAGACATGGATCTGTGGGAGCAACAAGAGGAAGAAAGAATTACTACAATGCAGC  
TAGAACGTGAAAAGGCTCTTGAACATAAGAAATCGAATGTCACGAATGCTTGAAGACAGAGATTTATTCGTAATGC  
GACTCAAAGCTGCACGGCAGTCTGTTTATGAGGAAAACTTAAACAGTTTGAAGAGCGATTAGCAGAAGAAAGGC  
ATAATCGATTGGAAGAACGGAAAAGGCAGCGTAAAGAAGAACGCAGGATAACATACTATAGAGAAAAAGAAGAGG  
AGGAGCAGAGAAGGGCAGAAAGACAAATGCTAAAAGAGCGGGAAGAGAGAGAGCGCCGAACGAGCAAAACGCG  
AGGAAGAGCTACGAGAGTATCAGGAGCGGGTGAAGAAATTAGAAGAAGTGGAAGGAAAAACGCCAAAGGGAGT  
TGGAATTTGAAGAACGAGAACGGCGTAGAGAGGAAGAGAGAAGACTTGGCGATAGTTCCCTTTCTAGAAAGGACT  
CTCGTTGGGGAGATAGAGATTCAGAAGGCACCTGGAGAAAAGGACCTGAAGCAGATTCTGAGTGGAGAAGAGGCC  
CGCCAGAGAAGGAGTGGAGACGTGGAGAAGGGCGAGATGAGGACAGGTCTCATAGAAGAGATGAAGAGCGGCCCC  
GGCGTCTGGGGGATGATGAAGATAGAGAGCCCTCTCTTAGACCAGACGATGATCGGGTTCCCCGGCGTGGCATGG  
ATGATGACAGAGGCCCTAGACGTGGTCTGAGGAAGATAGGTTCTCTCGTCTGGGGCAGACGATGACCGGCCCTT  
CCTGGCGTAACACAGATGATGACAGGCCTCCAGACGAATTGCCGATGAAGACAGGGGAACTGGCGTCATGCGG  
ATGATGACAGACCACCTAGACGAGGACTGGATGAGGACAGAGGAAGCTGGCGAACAGCTGATGAGGACAGAGGAC  
CAAGACGTGGGATGGATGATGACCGGGGGCCGAGGCGAGGAGCGCTGATGATGAGCGATCATCTGGCGTAATG  
CTGATGATGACCGGGTCCCAGGCGAGGGTTGGATGATGATCGGGGTCCCAGGCGAGGCATGGATGATGACCGGG  
GTCCCAGGCGAGGCATGGATGATGACCGGGGTCCCAGGCGAGGCATGGATGATGACCGGGGTCCCAGGCGAGGGT  
TGGATGATGATCGAGGACCTTGGAGGAACGCCGATGATGACAGAATCCCAGGCGTGGTGCAGAGGATGACAGGG  
GCCCTTGGAGAAACATGGATGATGATCGCCTTTCAAGACGTGCTGATGATGATCGGTTCCCAGACGGGGTGATG

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**FIGURE 3082B**

ACTCAAGACCTGGTCCTTGGAGACCATTAGTCAAGCCAGGTGGATGGAGAGAGAAAAGAAAAGCCAGAGAGGAGA  
GCTGGGGTCCACCTCGAGAATCAAGGCCATCAGAAGAACGTGAATGGGACAGAGAAAAAGAAAGGGACAGAGATA  
ATCAAGATCGGGAGGAGAATGACAAGGACCCTGAGAGAGAAAGGGACAGAGAGAGAGATGTGGATCGAGAGGATC  
GCTTCAGAAGACCTAGGGATGAAGGTGGCTGGAGAAGAGGACCAGCTGAGGAATCTTCAAGCTGGAGAGACTCAA  
GTCGCCGGGACGATAGGGATAGGGATGACCGTCGCCGTGAGAGGGATGACCGGCGTGATCTAAGAGAAAAGACGAG  
ATCTAAGAGACGACAGGGACCGAAGAGGACCCTCCACTCAGATCAGAACGTGAAGAAGTAAGTTCTTGGAGACGTG  
CTGATGACAGGAAAGATGACCGGGTGAAGAGCGGGACCCTCCTCGTCGAGTTCTTCCCCCAGCTCTTTCAAGAG  
ACCGAGAAAGAGACCGAGACCGAGAAAGAGAAGGTGAAAAGAGAAGGCCTCATGGAGAGCTGAGAAAGATAGGG  
AATCTCTCCGTCGTACTAAAAATGAGACTGATGAAGATGGATGGACCACAGTACGACGTTAAGTCCTCAAGATAAT  
GGATTTAACTGGTGTCTTAAATAGGTTTGATCACATTCAAGGATTATTATACTTGTGCTTCAACCAATCTAAAT  
TGGATTCTTTAATGTTGTTTCACCATAACACAAAAAGCATGAACCTGTATTAACTATATAATAGATTGATCAT  
GCACCATATCCACAGGAGGTTGAAAAACCATGCCATTTTCTGGAATTTAAGGGTGTGCATTATTTCATCAATC  
ATTTGTTGACAAAAAGAAAACTAAAAATAAATTTAAATGTGACCCTTCAGGTATTGAGTAACACCTTTATC  
TTGGTATAGAACTGATACTTTTTTTTTGATTTTGAATATCTGATAATAATTTGGAATGAAGTAAGGTTCTGTTA  
AAATATATTTGAAGACCCTTTAAAGCAGTGAATCTGAAACAATTTTCACACCCTTAAGTGGTTGATACGTACCTA  
TTTTAGGTATTTGAGGTATTTACCATAAACTAAATTTAGAAATTTTTTAGATTCACTTGAAGTAAACATTACAA  
ACATTGGATACGGTGGGGTTTTCTTTAGATTTTACTTGAGAGAAGGTGAGTACAAAGCAATTTGCAGTTGTTGTA  
ATGACAAGATTACTGCGCAAGTGTGAATCCAACAGTATAGCTTTTAAATTTTAAAGCATTGTTGTAATTTATCGC  
TGAGTTTTTTTTCTGTTGCCAATAGCAAAGTCTTTCCATTAAATGGAGAATTCATGCCTTTCAAGCATTTTAAAT  
ATGACAATATTTATAAATGTATGGTTTGGAGGAATCGTTTAAATTCCTTTCTTAATTTCTTTCTTTTGAAGAT  
AGATTCTTTCAACAAGTAATTTGTAGTAATGACTGTGTTGACTTCAATTTTGGAGCGCAGTAGCTATGTTAAAGA  
TGAATATTTGGTCTCATTGAAGCCAACACAGAAGTCTGCTGCTGTGTTTTTTCTTCAGTGATAAATAAATACTT  
ACAG

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**FIGURE 3083**

MPAYFORPENALKRANEFLEVGGKQPALDVLVDVMSKKHRTWQKIHEPIMLKYLELCVDLRKSHLAKEGLYQYK  
NICQQVNIKSLEDVVRAYLKMEEKTEAAKEESQQMVLDDIEDLDNIQTPEVLLSAVSGEDTQDRTDRLLTPWV  
KFLWESYRQCLDLLRNNSRVERLYHDIAQQAFKFCLOYTRKAEFRKLCNLRMHLSQIQRHNNQSTAINLNNPES  
QSMHLETRLVQLDSAISMELWQEAFAVEDIHGLFSLSKKPPKQLMANYYNKVSTVFWKSGNALFHASTLHRLY  
HLSREMRKNLTQDEMORMSTRVLLATLSIPITPERTDIARLLDMDGIVEKQRRLATLLGLQAPPTRIGLINDMV  
RFNVLYQYVPEVKDLYNWLEVEFNPLKLCERVTKVLNWVREQPEKEPELQOYVQQLQNTILRLLQQVSQIYQSI  
EFSRLTSLVPFVDAFQLERAIVDAARHCDLQVRIDHTSRTLSFGSDLNYATREDAPIGPHLQSMPSQIRNQLTA  
MSSVLAKALEVIKPAHILQEKEEQHQLAVTAYLKNSRKEHQRI LARRQTI EERKERLESNIQREKEELEQREAE  
LQKVRKAEERLRQEAKEREKERILQEHEQIKKKTVRERLEQIKKTELGAFAFKDIDIEDLEELDPDFIMAKQVE  
QLEKEKKELQERLKNQEKKIDYFERAKRLEEIPLIKSAYEEQRIKMDLWEQQEEERITTMQLEREKALEHKNRM  
SRMLEDRDLFVMRLKAARQSVYEEKLKQFEERLAEERHNRLEERKRQRKEERRITYYREKEEEEQRRAEQMLKE  
REERERAERAKREEELREYQERVKKLEEVERKKRQRELEIEERERRREEERRLGDSLSRKDSRWGDRDSEGTWR  
KGPEADSEWRRGPPEKEWRRGEGRDEDRSHRRDEERPRRLGDDEDREPSLRPDDRVPRGMDDDRGPRRGPEED  
RFSRRGADDDRP SWRNTDDDRPPRIADEDRGNWRHADDDRP PRGLDEDRG SWRTADEDRGPRRGMDDDRGP RR  
GGADDERS SWRNADDDRGPRRGLDDDRGPRRGMDDDRGP RRGMDDDRGPRRGMDDDRGP RRGLDDDRGPWRNADD  
DRIPRRGAEDDRGPWRNMDDRLSRRADDDRFPRRGDSRP GPWRPLVKPGGWREKEKAREESWGPPRESRPSEE  
REWDREKERDRDNQDREENDKDPERERDRERDVREDRFRPRDEGGWRRGP AESSSWRDSRRDDRDRDRRR  
ERDDRRDLRERRDLRDDRRGPPLRSEREEVSSWRADDRKDDRVEERDPPRRVPPALSRDRERDRERE  
KEKASWRAEKDRESLRRTKNETDEDGWTTVRR

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**FIGURE 3084**

CTCCACGCGCGGCCTGGCGGCGGCGGCCACTCTAACCAGCGCAAAATGTCCTGGAACAGGAGGAGGAAACGCAA  
CCTGGGCGGCTCCTAGGACGCAGAGACGCCGTCCCCGCCTTCATTGAGCCCAACGTGCGCTTCTGGATCACCGAG  
CGCCAATCCTTTATTTCGACGATTTCTTCAATGGACAGAATTATTAGATCCTACAAATGTGTTCATTTTCAGTTGAA  
AGTATAGAAAACCTCGAGGCAACTATTGTGCACAAATGAAGATGTTTCCAGCCCTGCCTCGGCGGACCAAAGGATA  
CAAGAAGCTTGGAAGCGGAGTCTTGCAACAGTGCATCCCGACAGCAGCAACCTGATCCCCAAGCTTTTTTCGACCT  
GCAGCGTTCCTGCCTTTCATGGCACCCACGGTATTTTTGTCAATGACGCCACTGAAAGGGATCAAGTCCGTGATT  
TTACCTCAGGTTTTCTCTGTGCCTACATGGCAGCGTTCAACAGCATCAATGGAAACAGAAGTTACACTTGTAAG  
CCACTAGAAAGATCATTACTAATGGCGGGAGCCGTTCCTTCAACTTTCTTAGGAGTAATCCCTCAGTTTGTC  
CAGATGAAGTATGGCCTGACTGGCCCTTGGATTAAAAGACTCTTACCTGTGATCTTCTCGTGCAAGCCAGTGGA  
ATGAATGTCTACATGTCCGAAGTCTTGAATCCATTAAGGGGATTGCGGTCAITGGACAAGGAAGGCAATGTCTTG  
GGTCATTCCAGAATTGCTGGGACAAAGGCTGTTAGAGAAACGCTAGCATCCAGAATAGTGCTGTTTGGGACCTCA  
GCTCTGATTCTGAAGTCTTCACCTACTTTTTTAAAAGGACCCAGTATTTTCAGGAAAAACCCAGGGTCATTGTGG  
ATTTTGAAACTGTCTTGTACTGTCTGGCAATGGGACTGATGGTGCCATTTTCTTTTAGTATATTTCCACAGATT  
GGACAGATACAGTACTGTAGTCTTGAAGAGAAAATTCAGTCTCCAACAGAAGAAACAGAAATCTTTATCACAGA  
GGGGTGTAGCGGTGAGTTTATAGGTGAATTTATGTGGTTCCTGCTTGAAAACCTTCCCCTCTCCAGGTTTCGGTTTA  
GAGAACTTTGCCACAGGCTCTCTGGGGTTTTTAAGGCTGGCTGGAGAAGACAGTGGGAGGGTGCCCCGTCTGACA  
CCCCTGGGGTTGCTGAGGGAACGGTTGGAGTGGGGATCGGCCTGCCAAAGGATACTGTGAAATCACTAATTAAT  
AATAAACCTGTCTCAAGTTGAGGATTTGAAGAAA

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**FIGURE 3085**

MSLEQEEETQPGRLLGRRDAVPAFIEPNVRFWITERQSFIRREFLOWTELLDPTNVFISVESIENSRLCTNEDV  
SSPASADQRIQEAWKRSLATVHPDSSNLIPKLFPAFLPFMAPTVFLSMTPLKGIKSVILPQVFLCAYMAAFNS  
INGNRSYTCKPLERSLLMAGAVASSTFLGVIPQFVQMKYGLTGPWIKRLLPVIFLVQASGMNVYMSRSLESIKGI  
AVMDKEGNVLGHSRIAGTKAVRETLASRIVLFGTSALIPFVETFFKRTQYFRKNPGSLWILKLSCTVLAMGLMV  
PFSFSIFPQIQIQYCSLEEKIQSPTEETEIFYHRGV

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**FIGURE 3086**

CTGAAGATGGCGGCTGCTGTAGGACGGTTGCTCCGAGCGTCGGTTGCCCGACATGTGAGTGCCATTCCCTTGGGGC  
ATTTCTGCCACTGCAGCCCTCAGGCCTGCTGCATGTGGAAGAACGAGCTTGACAAATTTATTGTGTCTGGTTCC  
AGTCAAGCAAAATTATTACAGCACCAGTTCCTCATGCCATGCACCTGCTGTCACCCAGCATGCACCCTATTTTAAG  
GGTACAGCCGTTGTCAATGGAGAGTTCAAAGACCTAAGCCTTGATGACTTTAAGGGGAAATATTGGTGCTTTTC  
TTCTATCCTTTGGATTTCACCTTTGTGTGTCCTACAGAAATTGTGCTTTTAGTGACAAAGCTAACGAATTTAC  
GACGTGAAGTGTGAAGTTGTGCGAGTCTCAGTGGATTCCCACTTTAGCCATCTTGCTGGATAAAATACACCAAGA  
AAGAATGGTGGTTTGGGCCACATGAACATCGCACTCTTGTGAGACTTAAGTAAGCAGATTTCCCGAGACTACGGT  
GTGCTGTTAGAAGGTTCTGGTCTTGCACTAAGAGGTCTCTTCATAATTGACCCCAATGGAGTCATCAAGCATTG  
AGCGTCAACGATCTCCAGTGGGCCGAAGCGTGGGAAGAAACCTCCGCTTGGTGAAGGCGTTCCAGTATGTAGAA  
ACACATGGAGAAGTCTGCCAGCGAAGTGGACACCGGATTCTCTACGATCAAGCCAAGTCCAGCTGCTTCCAAA  
GAGTACTTTTCAAGGTAATCAGTAGATCACCCATGTGTATCTGCACCTTCTCACTGAGAGAAGAACCACAGT  
TGAAACCTGCTTTTATCATTTTCAAGATGGTTATTTGTAGAAGGCAAGGAACCAATTATGCTTGTATTCTAAGT  
ATTACTCTAAATGTTTTGTTTTTGTAAATCTGGCTAAGACCTTTTAAACATGGTTAGTTGCTAGTACAAGGAATC  
CTTTATTGGTAACATCTTGGTGGCTGGCTAGCTAGTTTCTACAGAACATAATTTGCCTCTATAGAAGGCTATTCT  
TAGATCATGTCTCAATGGAAACACTCTTCTTTCTTAGCCTTACTTGAATCTTGCCTATAATAAAGTAGAGCAACA  
CACATTGAAAGCTTCTGATCAACGGTCTCTGAAATTTTCATCTTGAATGCTTTGTATTAACTGAATTTCTTTT  
AAGCTAACAAAGATCATAATTTTCAATGATTAGCCGTGTAACCTCCTGCAATGAATGTTTATGTGATTGAAGCAAA  
TGTGAATCGTATTATTTTAAAAAGTGGCAGAGTGACTTAAGTATCATGCATGATCCCTCATCCCTGAAATTGAG  
TTTATGTAGTCATTTTACTTATTTTATTATTAGCTAACTTTGTCTATGTATATTTCTAGATATTGATTAGTGTA  
ATCGATTATAAAGGATATTTATCAAATCCAGGGATTGCATTTTGAAATTATAATTATTTCTTTGCTGAAGTATT  
CATTGTAAACATACAAAATAAACATATTTTAAA

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**FIGURE 3087**

MAAAVGRLLRASVARHVSAIPWGISATAALRPAACGRTSLTNLLCSGSSQAKLFSTSSSCHAPAVTQHAPYFKGT  
AVVNGEFKDLSLDDFKGKYLVLFFYPDFTFVCPTEIVAFSDKANEFHDVNCEVVAVSVDSHFSLAWINTPRKN  
GGLGHMNIALLSDLTKQISRDIYGVLLLEGSGLALRGLFIIDPNGVIKHLVNDLPVGRSVEETLRVLKAFQYVETH  
GEVCPANWTPDSPTIKPSPAASKEYFQKVNQ



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**FIGURE 3088**

CAGAGGGAGGAAGAAGCGGCGGGCGGGCGGGCGGGCGGGCTCCTCTTTGCAGAGGGGGAACTCTTGGGCT  
GAGAGCAGGAATAATGCGGTAGGCAAGGCGGGCTGCTGGCTCCCCGGCTCCGGCAGCAGCGGCGGCAGCCCCGAG  
CAGCGGCAGCAGCAGCGGCAGCACCCAGGCGCTGACAGCCCCGGCGGGCTCCGTTGCTGACCGCCGACTGT  
CAATGGAGCTGGAAAACATCGTGGCCAACACGGTCTTGTGAAAGCCAGGGAAGGGGGCGGAGGAAAGCGCAAAG  
GGAAAAGCAAGAAGTGGAAAGAAATCCTGAAGTTCCCTCACATTAGCCAGTGTGAAGACCTCCGAAGGACCATAG  
ACAGAGATTACTGCAGTTTTATGTGACAAGCAGCCAATCGGGAGGCTGCTTTTCCGGCAGTTTTGTGAAACCAGGC  
CTGGGCTGGAGTGTTACATTCAGTTCTTGACTCCGTGGCAGAAATGAAGTTACTCCAGATGAAAACTGGGAG  
AGAAAGGGAAGGAAATTATGACCAAGTACCTCACCCAAAGTCCCCTGTTTTCATAGCCCAAGTTGGCCAAGACC  
TGGTCTCCAGACGGAGGAGAAGCTCCTACAGAAGCCGTGCAAGAAGTCTTTTCTGCTGTGCACAGTCTGTCC  
ACGAGTACCTGAGGGGAGAACCATTCCACGAATATCTGGACAGCATGTTTTTTGACCGCTTCTCCAGTGGAAGT  
GGTTGGAAGGCAACCGGTGACCAAAAACACTTTCAGGCAGTATCGAGTGCTAGGAAAAGGGGGCTTCGGGGAGG  
TCTGTGCTGCCAGGTTCCGGGCCACGGGTAAAATGTATGCCTGCAAGCGCTTGGAGAGAAGAGGATCAAAAAGA  
GGAAAGGGGAGTCCATGGCCCTCAATGAGAAGCAGATCCTCGAGAAGGTCAACAGTCAGTTTGTGGTCAACCTGG  
CCTATGCCTACGAGACCAAGGATGCACTGTGCTTGGTCTGACCATCATGAATGGGGGTGACCTGAAGTTCCA  
TCTACAACATGGGCAACCTGGCTTCGAGGAGGAGCGGGCTTGTTTATGCGGCAGAGATCCTCTGCGGCTTAG  
AAGACCTCCACCGTGAGAACACCGTCTACCGAGATCTGAAACCTGAAAACATCCTGTTAGATGATTATGGCCACA  
TTAGGATCTCAGACCTGGGCTTGGCTGTGAAGATCCCGAGGGAGACCTGATCCGCGGCCGGGTGGGCACTGTG  
GCTACATGGCTCCAGAGGTCTGAACAACAGAGGTACGGCCTGAGCCCCGACTACTGGGGCTTGGCTGCCCTCA  
TCTATGAGATGATCGAGGGCCAGTCGCCGTTCCGCGGCCGCAAGGAGAAGGTGAAGCGGGAGGAGGTGGACCGCC  
GGGTCTTGAGACGGAGGAGGTGTACTCCACAAAGTTCTCCGAGGAGGCCAAGTCCATCTGCAAGATGCTGCTCA  
CGAAAGATGCGAAGCAGAGGCTGGGCTGCCAGGAGGAGGGGCTGCAGAGGTCAAGAGACACCCCTTCTTCAGGA  
ACATGAACTTCAAGCGCTTAGAAGCCGGGATGTTGGACCCTCCCTTCGTTCCAGACCCCCGCGCTGTGTACTGTA  
AGGACGTGCTGGACATCGAGCAGTTCTCCACTGTGAAGGGCGTCAATCTGGACCACACAGACGACGACTTCTACT  
CCAAGTTCTCCACGGGCTCTGTGTCCATCCCATGGCAAACGAGATGATAGAAACAGAAATGCTTTAAGGAGCTGA  
ACGTGTTTGGACCTAATGGTACCCTCCCGCCAGATCTGAACAGAAACCACCTCCGGAACCGCCCAAGAAAGGGC  
TGCTCCAGAGACTCTTCAAGCGGCAGCATCAGAACAATTCCAAGAGTTCGCCCAGCTCCAAGACAGTTTTAAACC  
ACCACATAAACTCAAACCATGTCTAGCTCGAACTCCACCGGAAGCAGCTAGTTTCGGCTCTGGCCTCCAAGTCCAC  
AGTGGAAACCAGCCCAGACCCTTCTCCTTAGAAGTGGAAAGTGTGGAGCCCCCTGCTCTGGTGGGGCTGCCAGGGGA  
GACCCCGGGAGCCGGGGAAGGAGGCCGTCCATCCCGTCGACGTAGAACCTCGAGGTTTCTCAAAGAAATTTCCAC  
TCAGGCTGTTTTTCCGAGGCGGCCCGGCCGGGGTGGATTGGATTGTCTTTGGTGAACATTGCAATAGAAATCC  
AATTGGATACGACAACCTGCACGTATTTTAAATAGCGTCATAACTAGAACTGAATTTTGTCTTTATGATTTTTAAA  
GAAAAGTTTTGTAAATTTCTACTGTCTCAGTTTACATTTTGTATATTTGTATTTAAATGAAAGTGAGACTTTG  
AGGGTGTATATTTTCTGTGCAGCCACTGTTAAGCCATGTGTCCAAGGCATTTTAGCGGGGAGGGGGTTATCAA  
AAAAAAAATGTGACTCAAGACTTCCAGAGCCTCAAATGAGAAAATGTCTTTATTAATGTAGAAAGTGATCCA  
TACTTC

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**FIGURE 3089**

CGCTGATCGGTTTCCGGTCAGTGGTGTGGTACCGGGTACCCGGAGACGTGTATCGGACGGTGGGCCGAGCCATG

GCCGAGAGAAAACCTAACGGTGGCAGCGGGCGGCTCCACTTCCTCATCGGGCACTAACTTACTTTTCTCCTCC  
TCGGCCACGGAGTTCAGCTTCAATGTGCCCTTCATCCAGTCACCCAGGCCCTCCGCTTCTCCGGCCTCCCTGCTC  
TTACCGGGAGAGGATTCCACAGATGTTGGTGAGGAGGACAGCTTCCTTGGTCAGACTTCTATTACACATCTGCC  
CCACAGACATTTAGTTACTTCTCTCAGGTATCAAGCAGCAGTGATCCTTTTGGGAATATTGGACAGTCACCATTA  
ACAACTGCAGCAACCTCAGTTGGACAATCAGGATTCCCCAAGCCCCGACTGCTCTCCCTTTTACAACCTGGATCC  
CAAGATGTCTCGAATGCATTTTACCATCCATTTTCAAGGCTCAACCTGGTGTCCACCTTCTCTACTGATGGGA  
ATAAATCTTATCTGCCCTTCTCAGCCAAGTAGTCTCCCTCCTTCATATTTTGGGAACCAACCCCAAGGAATTCCC  
CAACCAGGATACAATCCATATCGCCATACCCCTGGCAGCAGCAGGGCTAATCCTTACATTGCACCAACCCAGCTG  
CAGCAGTGCCAAACACAGGCCCTCCTGCTCATCCTCCACCTTCTGGACCCCTGTTTCAGATGTACCATGACCT  
CCAGGATCTTTGCCACCGGTTCTTCTTTCAGTGCAGTCACCGGCACAGCAGCAGGTACCTGCCAGACCTGGGGCT  
CCCTCTGTTCAAGTGCCATCTCCTTTTCTACTTCAAAACCAATATGAGCCTGTTTCAGCCCCACTGGTTTTACTGC  
AAGGAGGTAGAATACAAACAACTGTGGATGCCCTTTAGTGTGTTCGACTCTTTGAATCTTGAAGAAATCTATAAT  
TCAGTTACGCCAGATCCGGAGAGCGTGGTTCTTGGCACGGATGGAGGGCGCTACGATGTTTACCTCTATGACCGA  
ATAAGGAAGGCTGCCTACTGGCAAGAGGAGCCAGCCGAAGTGAGACGCTGTACTTGGTTTTACAAGGGGGACACA  
GATAGTCGATTTATTCCCTATACTGAGGAGTTCAGTGAAAACTAGAGGCTGAATATAAAAAAGCTGAACCACT  
AATCAGTGGCACCAGATTAGAGTTTCCAAGTGAGAGACAATTGTTATGCACAAATCCAAAGGTTATTGTTTCAG  
TTCCAGCCCTCCTCAGTGCCAGATGAATGGGGACCCACGCAAGATGGACAGACAAGGCCCAGGGTTGTAAAGCGT  
GGAATTGATGATAACCTTGATGAAATTCCTGACGGGGAGATGCCCTCAAGTTGACCATTTGGTGTGTTGTGGTGCAT  
GGCATTGGACCTGTGTGTGACTTACGCTTTAGGAGCATTATTGAGTGTGTGGATGATTTTAGGGTGGTTTCTCTC  
AAATTGCTGCGGACACATTTCAAGAAATCTTTAGATGACGGGAAAGTAAGCAGAGTGGAGTTCTTCCAGTTTCAT  
TGGCATAGTTCTTTGGGTGGGACGCCACAGGTGTGGACAGGAATATTAAGAAATCACTTTGCCAAGTATTGGT  
CGATTTTCGTCACCTTTACCAATGAACTTTGCTAGATATTTTATTTTATAACAGCCCCACCTACTGTCAGACAATT  
GTGGAAAAAGTAGGAATGGAGATAAACCATCTGCATGCACCTCTTATGAGTCCGAACCCAGACTTCAAAGGAGGT  
GTCTCTGTTGCTGGTCACAGTTTAGGTTCTTTAATATTGTTTGACATCCTGTCTAATCAAAAAGATTGAATTTA  
TCAAAGTGCCCTGGACCTCTTGCTGTTGCTAATGGAGTTGTGAAGCAGCTACATTTTCAGGAAAAGCAGATGCCT  
GAAGAGCCAAAGCTGACTTTGGATGAGTCGTATGACCTTGTGTTGTTGAAAATAAAGAAGTCCTAATTTGCAAGAA  
ACTCTGGAAGCACTTAGCCTCTCTGAATATTTTAGCACTTTTGAAAAGGAAAAGATTGATATGGAGTCCCTGCTT  
ATGTGTACAGTTGATGACCTGAAGGAAATGGGGATAACCCCTTGGACCCAGAAAAGAAGATAGCTAATTTGTAGAA  
CATAAAGCAGCCAAACTGAAAAAGCAGCGTCAGAAAAGAAGGCAGTGGCGGCCACTTCTACAAAAGGACAAGAG  
CAAAGTGCCCAAGACTAAAGACATGGCTTCCCTCCCTCAGAAATCCAATGAGCCAAAGAGGAACTTCCAGTT  
GGTGCTTGCGTGTCTTCTGTGTGTGTGAATTATGAATCTTTTGAAGTTGGCGCCGGACAGGTTTCTGTTGCTTAC  
AACTCATTAGATTTTGAACCAGAGATATTCTTGGCTTGGGGTCTCCAATTGCTATGTTTCTCACTATTTCGAGGA  
GTTGATAGGATAGATGAGAATTACAGCCTTCCCTACCTGTAAAGGGTCTTCAATATTTATCATCCGCTTGATCCA  
GTGGCATATAGATTAGAACCTATGATTGTTCCAGATTGAGCCTAAAAGCTGTTCTCATTCCACATCACAAAGGC  
AGAAAAAGACTTCATTTAGAATTGAAAGAGAGTCTCTCTCGATGGGATCTGATTTGAAGCAGGGTTTTATTAGC  
TCTCTCAAAAGTGCTTGGCAGACATTAAATGAGTTTGCCCGTGCTCATACGTCTTCAACCCAGTTGCAAGAAGAA  
TTGGAGAAGGTGGCCAATCAGATCAAAGAAGAAGAAAAGCAAGTAGTTGAAGCAGAAAAGGTTGTTGAAAGT  
CCAGATTTTTCCAAGGATGAGGACTACTTAGGAAAGGTTGGAATGTTAAATGGAGGCCCGCAATTGACTACGTT  
CTCCAAGAAAAACCAATAGAGAGTTTAAATGAATACCTTTTCGCTCTTCAGAGTCACTTATGCTATTGGGAATCT  
GAAGATACTGCTCTGTTACTACTTAAAGAAATTTATCGAACAATGAACATTAGTCCAGAACAGCCCCAGCATTGA  
TCAAACCTCAGTT

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**FIGURE 3090**

MAERKPNGGSGGASTSSSGTNLLFSSSATEFSFNVFFIPVTQASASPASLLLPGEDSTDVGEEDSFLGQTSIHTS  
APQTFSYFSQVSSSSDPFGNIGQSPLTTAATSVGQSGFPKPLTALPFTTGSQDVSNAFSPSISKAQPGAPSSLM  
GINSYLPSQPSLPPSYFGNQPGIPQPGYNPYRHTPGSSRANPYIAPPQLQQCQTPGPPAHPPPSGPPVQMYQM  
PPGSLPPVPSSVQSPAQQQVPARPGAPSVQVPSFLLQNQYEPVQPHWFYCKEVEYKQLWMPFSVFDLSNLEEIY  
NSVQPDPESVVLGTDGGRYDVLYDIRKAAYWEEPAEVRRCWTFYKGDTSRFPYTEEFSEKLEAEYKKAFT  
TNQWHRRLFFPSGETIVMHNPKVIVQFQPSVPDEWGTQDGGQTRPRVVKRGIDDLDEIPDGEMPQVDHLVFFV  
HGIGPVCDLRFRSIIECVDDFRVSLKLLRTHFKKSLDDGKVSVEFLPVHWHSSSLGGDATGVDRNIKKITLPSI  
GRFRHFTNETLLDILFYNSPTYCQTIVEKVGMEINHLHALFMSRNPDKGGVSVAGHSLGSLILFDILSNQKDLN  
LSKCPGPLAVANGVVQLHFQEKQMPPEPKLTLDSEYDLVVENKEVLTQETLEALSLEYFSTFEKEKIDMESL  
LMCTVDDLKEMGIPLGPRKKIANFVEHKAALKKAASEKKAVAATSTKGQEQSAQKTKDMASLPSESNEPKRKL  
VGACVSSVCVNYESFEVGAGQVSVAYNLDFEPEIFFALGSPIAMFLTIRGVDRIDENYSLPTCKGFFNIYHPLD  
PVAYRLEPMIVPDLDLKAVLIPHKKGRKRLHLELKESLSRMGSDLKQGFISLKS AWQTLNEFARAHTSSTQLQE  
ELEKVANQIKEEEEKQVVEAEKVVEPDFSKDEDYLGKVGMLNGGRRIDYVLQEKPIESFNEYLFALQSHLCYWE  
SEDTALLLLEIYRTMNISPEQPQH

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**FIGURE 3091**

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCT  
CTAGGCCTTTTAGAAAACATGGAGTTGTTTCCTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAG  
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTACCATGGCAAACTGGAAGAGTCTACA  
ATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG  
TGC GTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAA  
AGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTG  
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCTATGAATTCATGGCATAATAGGTGTTAAAAA  
AAAAAATAAGGACCTCTGGGCTACAAAAAAAAAAAAAAAAAAAA

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**FIGURE 3092**

MTNTKGKRRGTRYMF SRPFRKHGVVPLATYMRIYKKGDIVDIKGMGTVQKGMPhKCYHGKTGRVYNVTQHAVGIV  
VNKQVKGKILAKRINVRIEHIKHSKSRDSFLKRVKENDQKKKEAKEKGTWVQLKRQPAPPREAHFVRINGKEPEL  
LEPIPYEFMA

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**FIGURE 3093**

GAAGCAAGGAGGCGGCGGCGGCGGAGCGAGTGGCGAGTAGTGAAACGTTGCTTCTGAGGGGAGCCCAAGATGAC  
CGGTTCTAACGAGTTCAAGCTGAACCAGCCACCCGAGGATGGCATCTCCTCCGTGAAGTTCAGCCCCAACACCTC  
CCAGTTCCTGCTTGTCTCCTCCTGGGACACGTCGCTGCGTCTCTACGATGTGCCGGCCAACTCCATGCGGCTCAA  
GTACCAGCACACCGGCGCGCTCCTGGACTGCGCCTTCTACGATCCAACGCATGCCTGGAGTGGAGGACTAGATCA  
TCAATTGAAAAATGCATGATTGAACACTGATCAAGAAAATCTTGTGGGACCCATGATGCCCTATCAGATGTGT  
TGAATACTGTCCAGAAGTGAATGTGATGGTCACTGGAAGTTGGGATCAGACAGTTAACTGTGGGATCCCAGAAC  
TCCTTGTAATGCTGGGACCTTCTCTCAGCCTGAAAAGGTATATACCTCTCAGTGTCTGGAGACCGGCTGATTGT  
GGGAACAGCAGGCGCGAGAGTGTGGTGTGGGACTTACGGAACATGGGTACGTGCAGCAGCGCAGGGAGTCCAG  
CCTGAAATACCAGACTCGCTGCATACGAGCGTTTCCAAACAAGCAGGGTTATGTATTAAGCTCTATTGAAGGCCG  
AGTGGCAGTTGAGTATTTGGACCCAAGCCCTGAGGTACAGAAGAAGAAGTATGCCTTCAAATGTCACAGACTAAA  
AGAAAATAATATTGAGCAGATTTACCCAGTCAATGCCATTTCTTTTCACAATATCCACAATACATTGCCACAGG  
TGGTTCTGATGGCTTTGTAATATTGGGATCCATTTAACAAAAAGCGACTGTGCCAATTCCATCGGTACCCAC  
GAGCATCGCATCACTTGCCCTCAGTAATGATGGGACTACGCTTGCAATAGCGTCATCATATATGTATGAAATGGA  
TGACACAGAACATCCTGAAGATGGTATCTTCATTGCGCAAGTGACAGATGCAGAAACAAACCCAAGTCACCATG  
TACTTGACAAGATTTCAATTTACTTAAGTGCCATGTTGATGATAATAAAACAATTCGTACTCCCCAATGGTGGATT  
TATTACTATTAAGAAACCAGGGAAAATATTAATTTTAAATATTATAAACCTGAAAATAATGAAAAGAGGTTT  
TTGAATTTTTTTTTTAAATAAACACCTTCTTAAGTGCATGAGATGGTTTGATGGTTTGTCTGCATTAAAGGTATT  
TGGGCAACAAAATTGGAGGGCAAGTGAAGTGCAGTTTGAAGATCAGTTTGAACCTTGATGATTTTTTGTTCCTCA  
CTGTGGAATAAATGTTTGTAATAAGTGAATAAAAAATCCCTTTGCATTCTTTCTGGACCTTAAATGGTAGAGG  
AAAAGGCTCGTGAGCCATTTGTTTCTTTGCTGGTTATAGTTGCTAATCTAAAGCTGCTTCAGACTGCTTCATG  
AGGAGGTAAATCTACAATTAACAATATTTCTCCTTGGCCGTCCATTATTTCTGAAGCAGATGGTTCATCATT  
CCTGGGCTGTTAAACAAAGCGAGGTTAAGGTTAGACTCTTGGGAATCAGCTAGTTTTCAATCTTATTAGGGTGCA  
GAAGGAAAACATAAAGAAAACCTCCTAATATCATTTTGTGACTGTAAACAATTATTTATTAGCAAACAATTGAT  
CCCAGAAGGGCAAATTGTTGAGTCAGTAATGAGCTGAGAAAAGACAGAGCATATCTGTGTATTGGAATAA  
TTGTAACGTAATTGCAGTGCATTTAGACAGGCATCTATTGGACCTGTTTCTATCTCTAAATGAATTTTGGAAA  
CATTAATGAGGTTTACATATTTCTCTGACATTTATATAGTTCCTTATGTCCATTTAGTTGACCAGCCGCTGGTGA  
TTAAAGTTAAAAAGAAAAAATTATAGTGAGAATGAGATTCAATTTCAATGTAATGCACTAAAGCAGAACACGAAC  
TTAGCTTGGCCTATTCTAGGTAGTTCCAAATAGTATTTTGTGTGCAACTTAAAAATTTATATTAATTTGCAAA  
TGTATGTCTCTGAGTAGGACTTGGACCTTCTCTGAGATTTATTTTATCCGTGATGTATTTTTTTAATTCCTTTG  
ATACAGAGAAGGGTCTTTTTTTTTTAAAGTATTTAGTGAAGAACTTGGTGTAAAGTCTGAACCCATCTTTGAAAT  
GATTTTCTTCATTGCAGGTCCACCTAATCATCTGTGAAAGTGGTTTCTCTATGGAAAGCTTTGTTTGCTTCCT  
ACAAATACATGCTTATTCCTTAAGGGATGTGTTAGAGTTACTGTGGATTCTCTGTTTTCTGTCTTACAAGAAAC  
TTGTCTATGTACCTTAATACCTTTGTTTAGGATGAGGAGTCTTTGTGTCCCTGTACAGTAGTCTGACGTATTTCCC  
CTTCTGTCCCCTAGTAAGCCAGTTGCTGTATCTGAACAGTTTGAAGCTCTTTTGTAAATATACTCTAAACCTGTT  
ATTTCTGTGCTAATAAACGAGATGCAGAACCTTGAAAAA

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**FIGURE 3094**

MTGSNEFKLNQPPEDGISSVKFSPNTSQFLLVSSWDTSVRLYDVPANSMRLKYQHTGAVLDCAFYDPTHAWSGGL  
DHQLKMHDNLNTDQENLVGTHDAPIRCVEYCPEVNMVMTGSWDQTVKLWDPRTPCNAGTFSQPEKVYTLVSGDRL  
IVGTAGRRVLVWDLRNMGYVQQRRESSLKYQTRCIRAFPNKQGYVLSSIEGRVAVEYLDPSPEVQKKKYAFKCHR  
LKENNIEQIYPVNAISFHNIHNTFATGGSDGFVNIWDPFNKKRLCQFHRYPSTIASLAFSNDGTTLAIASSYME  
MDDTEHPEDGIFIRQVTD AETKPKSPCT

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**FIGURE 3095**

ATTTTCCACGCTGTACCGGGCGGAAATTCAAGCACTGGAAGAGAGGTTCCGGGGCTGGGCTGGCCTGACTGAAGGC  
GGCGGAATGGAGACGCGGACCGAGGACGGGGGCCTCACCCGCCGCCACGCTGGCCTCTTCTTGGGATGTTGCA  
GGCGGGGCCCTGACCCACAGCCTCCTCCTCACCCGGGCCGGTCTCGGCCCCGGTGACTTCGACTGGGAGGAGCTG  
CTGGCACCGCCTGCTCCAGGTCAGGATCTGGTGATTTTGAAGAGAAACCACAACGACAAAGATGAAAACCCCTGC  
TTCTTTTACCTGAGGTGTGGCCCTGATGGAGGTGAAGAAATCGCTTCTATTGGCATTTTAAGTTTCAGCAAGAAAT  
ATGGAAGTGTACTTAGGAGAGGAGTACTGTGGAACCACTAGGGGCAAGAATGTTTGTACTGTCCTGGATGACAGT  
GAACATGAAAAGATCATTTTGTATAAAAAAATCTAAAATTGGAGTCTCCACACATGCTTGTAATAATAAGTTG  
CTCTCTTTGGCGAAAGGCAGTGTGTGTTTCATCAGTAAAGTTGTGGTACACATGAGATCAGTTTTTGCATAATTCT  
TCAACAAGCTCTCCTGCTCTAGGATCAAGGATAGACCTTGACAAGGTCCAACCATAATGGAGTCCATGGGGTCA  
AAGTTATCTCCTGGAGCTCAGCAGTTGATGGATATGGTTAGGTGTGTCAGCAGCGGAATTGTATTCCCATGGAGAG  
CAGCTTCAGTCGGTGTGGGCAATTCTGGATACAAGCATATGATTGGACTACAATCCTCATCTACCTTAGGAACC  
TTAAACAAGTCGCTCTCCACACCTTTTCTTTTGAAGTGGATTGACATCTGGGAACGTGACTGAAAACCTTACAA  
ACTTACATTGATAAAAGTACACAACCTGCCTGGTGGAGAGAATTCTACCAAGCTTGATGAGTGTAAGTTATGCCCT  
CAAAACCATTCCTTTCTTGAATAATGATCTTAAAAATGCAATGGCCTCTTCTTACCAAAGAAAGTAAGTGACAAC  
TCAAAATATACCAACTCCGAGTTGCTGCCTTTTCTCCAGAATTTATGTAGTCAAGTTAATCATCTCCATGTGGGA  
AATAAGACCGAGTGTGAGGAAAACATCACCAAGCATGGTGAACGCATTCTGGTGTGGAAATGGAAGAGCAATCT  
ATTTGCTCCTACTTGGAAAAGATTCTTCTAAAAATATGGAAGTATGGAAGAAAGAACTTATGGATTACATTGAT  
CAGCGAATACATGAAGTCCAGGAGCACATTGATGATAAGATTGCTTTGTTACTGGATTGTGCTGCAAAATCCTAAC  
TCCCCGCCCACTGGGATACCTCTAAGACATTATGACTCTGGAGAAAGACTTCAAAATGGAGAAAAGATAAGCTCTC  
AACATAAACAGTGTACTGCAGATATTTATTACATATTTATTACAAAGCCAAAACCCAAAAATATTTATAAAAGC  
AAGTATTTAATGTCCTTTGAGGGATCATTGTCTTACACAAAGTGACCTCAGTTTTTCGTTTTTACTACACTTGTTA  
TTTTAAATCCAGTACTGTACACTGAGTTAATATGATACAGTCAAATTATTTTGTCTACGATATTTTTAGTCTT  
ACAGAAATGTATGTATATTTGTGTTAAGAGTTTAAATGCTTGAGGATTTCTAATACAGTTTCATTAGTTTGTATT  
GTATATGTGTTTAAGTATAATTTTTATTATACAAAGATCTTATAGTCTTAGAAGTATGAAAATAATGCTTAAG  
AGTATTTGATTTTTTTCTTTTCTAATTATCTTGAAAATTTGATACTTAAGACTTTGGAGCCTTTACTTCAGATT  
ACCAGTTTACATTTTGTATTGCTTGTGTGAGATAATGAATAAGATGTGATATTTGGCATGTGTAACTTAGTTCA  
CTCTGGGGTTGTTAATATATTTGTTTCATTACAGAGTAGCTGTAGGTAGGAAAGTAAACATCAGAACTAGCCTA  
GTCCTTGTACGATTAGTACTTTGGATTGATTTTCTCTGTAAAACAGATGCAGTCATCTTGTGTTGACCTCAGTA  
ACCCAGACAGTTTAAAGAAAACCTCTCCTTTTGAGCTGATACAGGTTTTTTCCCAAGAAATCCTTTCTGGCATGT  
TTATTGTATGAAATAATGAGGCTCTCCAATGGAAGGATGAACACATATGAGTCAAGGGATTGCAATTCTCTCTGAT  
AGACTTAGTTTTTCAGACCTTATAACTATTGTATATGCATTGAAGGGTGATATATTTGCATATAAAAAATAACGCA  
CCTGCTCTGGG



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**FIGURE 3096**

METRTEGGGLTRRPTLASSWDVAGGALTHSLLLTRAGLGPGDFDWEELLAPPAPGQDLVILKRNHNDKDENPCFL  
YLRCGPDGGEEIASIGILSSARNMEVYLGE EYCGTSRGKNVCTVLDSEHEKIILYKKNLKLESSTHACKIKLLS  
FGERQCVFISKVVVHMRSVFANSSTSSPALGSRIDLKDVQTIMESMGSKLSPGAQQLMDMVRCQQRNCIPIGEQL  
QSVLGNSGYKHMIGLQSSSTLGTLNKSSSTPFPFRGTSGNVTENLQTYIDKSTQLPGENSTKLDECKVMPQN  
HSFLENDLKNAMASFLPKKVSDNSNIPNSELLPFLQNLCSQVNLHVGNKTECQENITKHGERILGVGMEEQSIC  
SYLEKILSKNMELMEKKLMDYIDQRIHELQEHIDDKIALLLDLLQNPNSPPTGIPLRHYDSGERLSNGER

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**FIGURE 3097**

GTGAGCGGCAACATGGCGTCCAGGTCTAAGCGGCGTGCCGTGGAAAGTGGGGTCCGCAGCCGCCGGATCCCCCA  
GTCCAGCGCGACGAGGAAGAGGAAAAAGAAGTCGAAAATGAGGATGAAGACGATGATGACAGTGACAAGGAAAAG  
GATGAAGAGGACGAGGTCAATTGACGAGGAAGTGAATATTGAATTTGAAGCTTATCCCTATCAGATAATGATTAT  
GACGGAATTAAGAAATTACTGCAGCAGCTTTTTCTAAAGGCTCCTGTGAACACTGCAGAACTAACAGATCTCTTA  
ATTCAACAGAACCATAATTGGGAGTGTGATTAAGCAAACGGATGTTTCAGAAGACAGCAATGATGATATGGATGAA  
GATGAGGTTTTTGGTTTCATAAGCCTTTTAAATTTAACTGAAAGAAAGGGTACCCAGTGTGTTGAACAAATTCAA  
GAGTTGGTTCTACGCTTCTGTGAGAAGAACTGTGAAAAGAGCATGGTTGAACAGCTGGACAAGTTTTTAAATGAC  
ACCACCAAGCCTGTGGGCCTTCTCCTAAGTGAAGATTTCATTAATGTCCCTCCACAGATCGCTCTGCCCATGTAC  
CAGCAGCTTCAGAAAGAACTGGCGGGGGCACACAGAACCAATAAGCCATGTGGGAAGTGCTACTTTTACCTTCTG  
ATTAGTAAGACATTTGTGGAAGCAGGAAAAACAATTCCAAAAAGAAACCTAGCAACAAAAAGAAAGCTGCGTTA  
ATGTTTGCAAATGCAGAGGAAGAATTTTCTATGAGGAGCAGGGAAAACCTGAGGTGCTTGAGGTCCAGACACA  
AGAAGAGGATTGGAACCAAGTCCGATACAGCACAATGGTGGTTCACGGGGGCAAGTGACAGCCCTGGTTTCTCTG  
AAGGCTGGACTAATTCAATCAAGATCAACTCTAAGTGATTTCCAGGGAACCTTCATGACTGTTGGAATTGCTCTG  
TCATAATAAGTCAGGGATATTTAGGAGGCTCATAGTCTCCTGGAGGGATAAAACATCTCGGCACCTAGTAATGGT  
AAATTAGTCAATATTTGTTAGTTTCGTTTGAGATCTCAAATGTTAGGATTTTCTGAAGTCTCAGTGCTTTTCAGA  
GTTTGAGATACCTTGTTTTTCATTTTTCTAATTTTAAATTTAAAGTAATAAAGAATATTTTGTAATGATTAGGA  
TGAAAATTTTATCGTCAATTATAAGCCAAAATTTGCTAAAATTAAAGTCAGTATACTTGAAAAA  
AAAAAAAAAAAAA

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**FIGURE 3098**

MASRSKRRAVESGVPQPPDPPVQRDEEEKEVENEDDDSDKEKDEEDEVIDEEVNIEFEAYSLSNDYDGIK  
KLLQQFLKAPVNTAELTDLLIQNHIGSVIKQTDVSEDSNDDMDEDEVFGFISLLNLTERKGTQCVEQIQELVL  
RFCEKNCEKSMVEQLDKFLNDTTKPVGLLLSERFINVPPQIALPMYQQLQKELAGAHRTNKPCGKCYFYLLISK  
FVEAGKNNSSKKPSNKKKAALMFANAEEFFYEEQGKPEVLGGPDTRRGLEPVPIQHNGGSRGQVTALVSLKAGL  
IQSRSTLSDFQGTFTVGIALS

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**FIGURE 3099**

GCGGAGCGAGCCCTGAAAGGCTATAGGCGAGGGGGCGGCTCCGCGGGGCCGGGCGAGGAGTCCAGAGAGCCATCG  
CCGCCCTGCGTGTCTGCTGTCTGCGCCCGCGGCCCGCTGAGGCCCCCGGTTGCTGTCCCGCTGGCGTCCCT  
TCGCCTCGGGTGCTAACTTTGAGTACATCATCGCAGAAAAAGAGGGAAGAATAACACCGTGGGGTTGATCCAAC  
TGAACCGCCCCAAGGCCCTCAATGCACTTTGCGATGGCCTGATTGACGAGCTCAACCAGGCCCTGAAGATCTTCG  
AGGAGGACCCGGCCGTGGGGGCCATTGTCTCACC GCGGGGATAAGGCCTTTGCAGCTGGAGCTGATATCAAGG  
AAATGCAGAACCTGAGTTTCCAGGACTGTTACTCCAGCAAGTTCTTGAAGCACTGGGACCACCTCACCCAGGTCA  
AGAAGCCAGTCATCGCTGCTGTCAATGGCTATGCCTTTGGCGGGGGCTGTGAGCTTGCCATGATGTGTGATATCA  
TCTATGCCGGTGAGAAGGCCAGTTTGCACAGCCGGAGATCTTAATAGGAACCATCCCAGGTGCGGGCGGCACCC  
AGAGACTCACCCGTGCTGTTGGGAAGTCGCTGGCGATGGAGATGGTCCTCACCGGTGACCGGATCTCAGCCCAGG  
ACGCCAAGCAAGCAGGTCTTGTGAGCAAGATTTGTCTGTTGAGACACTGGTGGAAGAAGCCATCCAGTGTGCAG  
AAAAAATTGCCAGCAATTCTAAAATTGTAGTAGCGATGGCCAAAGAATCAGTGAATGCAGCTTTTGAAATGACAT  
TAACAGAAGGAAGTAAGTTGGAGAAGAACTCTTTTATTCAACCTTTGCCACTGATGACCGGAAAGAAGGGATGA  
CCGCGTTTGTGGAAAAGAGAAAGGCCAACTTCAAAGACCAGTGAGAACCAGCTGCCCTGCTTCACACCTCTGCT  
TGGAGAGGACAAGTGCAGCCTGTCAGTTTGTAGAAGCAAGTAAATCATCCTCTTTTCAAGAGCAGTGTCCGTGGTG  
TGCAGTTCTCTCCAATTGCTGCGTGGTCGTGGCCCGACCTCTCACGGCATGACAGCCTTCGTCAACCAGCCTGT  
GAGGGTCTGACTGGAGCACCTTCTAAATCTAAGATTCTGTGAGGAGCCCCGCTGGTCCCTCTGGGCATGCTG  
TGCTCGGACGGAAAGCGGGGCTGCGGGTCCTTGTGTCCCTGCCGCTGAAGAATGGGGCTGCTCTGAGGGAAACG  
CTGTCTGCTGCCTTCATACAGATGCTGATTAAAGTGATAGCGATTTCAGATT

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**FIGURE 3100**

MAALRVLLSCARGPLRPPVRCPAWREFASGANFEYIIAEKRGKNNTVGLIQLNRPKALNALCDGLIDELNQALKI  
FEEDPAVGAIIVLTGGDKAFAAGADIKEMQNLSFQDCYSSKFLKHWDHLTQVKKPVIAAVNGYAFGGGCELAMMCD  
IIYAGEKAQFAQPEILIGTIPGAGGTQRLTRAVGKSLAMEMVLTGDRISAQDAKQAGLVSKICPVETLVEEAIQC  
AEKIASNSKIVVAMAKESVNAAFEMTLTEGSKLEKKLFYSTFATDDRKEGMTAFVEKRKANFKDQ

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**FIGURE 3101**

GGCGGAAGTGGCTCCGGGACTGCGGAGAACATATTGTGATGTTGTCGCTCAGAGCTAAACTATGAGTGAATTT  
CGGATTACCATGACGTCAATGAACTGCTTAGCCTGCTGCGTGTCCACGGAGGAGATGGGGCTGAGGTCTACATT  
GACCTGCTTCAAAGAACAGGAQCCCGTACGTCACTACCCTGTCTCTGCTCAGAGTGCCAAGGTTAAAATTGCA  
GAGTTTTCTCGTACTCCAGAAGACTTTCTAAAGAAATATGATGAACTGAAATCTAAAAATACAAGGAACCTTGAC  
CCGCTGGTGTACCTGTTGTCAAAGCTCACGGAAGACAAAGAGACTCTGCAGTACTTACAACAGAATGCAAAAGAA  
AGAGCTGAGCTTGCAGCCGCTGCTGTGGGCAGCAGTACCACCAGCATCAACGTCCCTGCCGCGGCTCCAAGATC  
TCCATGCAGGAGCTTGAGGAAGCTGAGGAAGCAGCTTGGCAGCGTGGCCACAGGCTCCACGCTGCAGCAGTCTCTG  
GAACTTAAAAGAAAGATGCTTCGAGACAAGCAGAACAAAAAATTTCAGGCCAGCACCTCCCCATCTTCCCAGCA  
TGGGTGTATGAGAGACCTGCCCTGATCGGGGATTTCTGATTGGTGTGGCATCAGCACAGACACCGCTTTGCCG  
ATAGGCACGTTGCCCCGCTCGCAGGAGTCGGCCGTGGTGGAGGACCTGCTGTACGTGCTGGTGGGCGTGGAC  
GGGAGGTACGTACGTGCTCAGCCCCGCTGGCTGGGAGGCAGAGCCGGACCTTCTCGTGGACCCCAACCTGGACCTG  
TCCATCAGGGAGCTGGTGCACAGGATCCTCCAGTGGCCGCCAGTACTCCGCTGTGACCAGGTTCAATTGAAGAG  
AAGTCTTCTTCGAGTACGGGCAGGTGAACCACGCCCTGGCGGCCGCCATGCGCACCTTGGTGAAGGAGCACCTG  
ATTCTGGTGTACAGCTGGAGCAGCTGCACAGGCAGGGCCTCCTTTGCTGCAGAAAGCTCTGGTTCTACATCCAG  
CCAGCCATGCGCACCATGGACATCCTGGCCTCCCTCGCCACCTCGGTGGACAAAGGCGAATGTCTTGGGGGGTCC  
ACGCTGAGCCTGCTCCACGACAGGAGCTTCAGCTACACAGGGGACAGCCAGGCGCAGGAGCTATGCTGTACCTA  
ACCAAGGCGGCCAGTGCTCCCTACTTCGAGGTTCTGGAGAAGTGGATCTACAGGGGCATCATCCACGACCCATAC  
AGTGAGTTTATGGTCGAGGAGCACGAGCTGCGGAAGGAGAGGATCCAGGAGGATTACAACGACAAGTACTGGGAC  
CAGCGGTACACCATCGTCCAGCAGCAGATCCCGTCTTCTGTCAGAAAATGGCGGACAAGATCCTCAGCACAGGA  
AAATATCTAAATGTGGTCAGAGAGTGTGGCCATGACGTACCTGCCCGGTGGCTAAAGAGATCATCTACACGTTA  
AAAGAGCGGGCGTATGTGGAGCAGATCGAGAAGGCGTTTAACTACGCCAGCAAGGTGCTGCTGGACTTCTGTATG  
GAGGAGAAGGAGCTGGTGGCTCACCTCAGGTCCATCAAGCGCTACTTCTCATGGACCAGGGCGACTTCTTCGTG  
CACTTCATGGACCTCGCGGAGGAGGAGCTCCGGAAGCCGGTGGAGGACATCACGCCCCCTCGCTGGAAGCGCTC  
CTGGAGCTGGCGCTGCGCATGAGCACGGCCAACACTGACCCCTTCAAGGACGACCTCAAGATCGACCTGATGCCC  
CATGACCTCATCACTCAGCTCTTGCGCGTCTTGCCATCGAGACCAAGCAGGAGAAGGCGATGGCGCACGCCGAC  
CCCACGGAGCTGGCGCTGAGCGGCTGGAGGCCTTCTCTTTCGACTACATCGTCAAGTGGCCCTTTCGCTCATC  
ATCAACAGGAAAGCCCTCACTCGCTACCAGATGCTCTTCAGGCACATGTTCTATTGCAAGCACGTGGAGCGGCAG  
CTCTGCAGCGTCTGGATCAGCAACAAAACCGCCAAGCAGCACTCGCTGCACTCCGCCCAGTGGTTTGCTGGGGCT  
TTCACTCTGCGGCAGCGAATGCTCAACTTCGTCCAGAATATTCAATACTACATGATGTTTGAAGTGATGGAACCG  
ACCTGGCACATCCTGGAGAAAAACCTGAAATCCGCCTCCAACATTGACGACGTCCTTGGCCACCACACAGGCTTC  
CTGGACACCTGCCTGAAGGACTGCATGCTACCAACCCCGAGCTGCTGAAGGTCTTCTCCAAGCTCATGTCTGTG  
TGGTCTATGTTTACCAACTGCATGCAGAAATTTACACAGAGCATGAAATTAGATGGCGAGCTGGCGGGGAGAGC  
CTGGAGCACAGCACCGTCTGGGGCTGCCCGCAGGGGCCGAGGAGCGGGCCGGAAGGAGCTCGCCAGGAAGCAC  
CTGGCTGAGCACGCAGACACTGTGCAGCTGGTGTCCGGCTTCGAGGCCACCATCAACAAGTTTGACAAGAATTC  
TCAGCCCACCTGCTGGACCTCCTGGCCCGGCTGAGCATCTATAGCACCAGTACTGTGAGCACGGCATGGCCAGC  
GTCATCTCCAGGCTTGACTTCAATGGTTTTCTACACGGAGCGCTGGAGCGCCTGTCTGCAGAGAGGAGCCAGAAG  
GCCACCCCCCAAGTGCCCTGTCTGCGGGGGCCCCCGCTCCTGCACCCAGGGTCGCAGTCACCGCACAGTGAGCC  
CTGGCTGTGACAGGAAGGAAGGGTGTGGGGTCAGCAGGGACTGGTGCAAATGGGTCCAGAATTTTCAAATC

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**FIGURE 3102**

MSEFRIHHDVNELLSLLRVHGGDGAENVYIDLLQKNRTPYVTTTSAHSAKVKIAEFSRTPEDFLKKYDELKSKNT  
RNLDPLVYLLSKLTEDKETLQYLQONAKERAELAAAAGSSTTSINVPAAASKISMQELEELRKQLGSGVATGSTL  
QQSLELKRKMLRDKQNKNSGQHLPIFPWVYERPALIGDFLIGAGISTDTALPIGTLPLASQESAVVEDLLYVL  
VGVDGRYVSAQPLAGRQSRTFLVDPNLDLSIRELVHRILPVAASYSAVTRFIEEKSSFYEQVNHAAAMRTL  
KEHLILVSQLEQLHRQGLLSLQKLWFIQIPAMRTMDILASLATSVDKGECLGGSTLSLLHDSFSYTGDSQAQEL  
CLYLTKAASAPYFEVLEKWIYRGIHDPYSEFMVEEHELKRIQEDYNDKYWDQRYTIVQQQIPSFQKMDKI  
LSTGKYLNVVRECCHDVTCPVAKEIIYTLKERAYVEQIEKAFNYASKVLLDFLMEEKELVAHLRSIKRYFLMDQG  
DFFVHFMDLAEELRKPVEDITPPRLEALLELALRMSTANTDPFKDDLKIDLMPHDLITQLLRVLAETKQEKAM  
AHADPTLALSGLEAFSFDYIVKWPLSLIINRKALTRYQMLFRHMFYCKHVERQLCSVWISNKTAKQHSLSAQW  
FAGFTLRQRLNLFVQNIQYYMMFEVMEPTWHILEKNLKSASNIDDLGHHTGFLDTCLKDCMLTNPELLKVF  
LMSVCMFTNCMQKFTQSMKLDGELGGQTLHSTVLGLPAGAEERARKELARKHLAEHADTVQLVSGFEATINKF  
DKNFSAHLDDLARLSIYSTSDCEHGMAVISRLDFNGFYTERLERLSAERSQKATPQVPVLRGPPAPAPRVAVT  
AQ

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**FIGURE 3103**

GACCCGGCCATGCGCGGCTCGGGCTCTGGCTGCTGGGCGCGATGATGCTGCGATTGCCCCAGCCGGCCC  
TGGGCCCTCATGGAGCAGTATGAGGTCGTGTTGCCGTGGCGTCTGCCAGGCCCCGAGTCCGCCGAGCTCTGCCC  
TCCCACTTGGGCTGCACCCAGAGAGGGTGAGCTACGTCTTGGGGCCACAGGGCACAACCTTACCCTCCACCTG  
CGGAAGAACAGGGACCTGCTGGGCTCCGGCTACACAGAGACCTATACGGCTGCCAATGGCTCCGAGGTGACGGAG  
CAGCCTCGCGGGCAGGACCACTGCTTCTACCAGGGCCACGTAGAGGGGTACCCGGACTCAGCGCCAGCCTCAGC  
ACCTGTGCCGGCTCAGGGGTTTCTTCCAGGTGGGGTCAGACCTGCACCTGATCGAGCCCTGGATGAAGGTGGC  
GAGGGCGGACGGCAGCCGTGTACCAGGCTGAGCACCTGCTGCAGACGGCCGGGACCTGCGGGGTGACGACGAC  
AGCCTGGGCAGCCTCTGGGACCCCGACGGCAGCCGTCTTACGGCCTCGGCCGGGGACTCTCTGCCATCCCGA  
GAGACCCGCTACGTGGAGCTGTATGTGGTCTGGACAATGCAGAGTTCCAGATGCTGGGGAGCGAAGCAGCCGTG  
CGTCATCGGGTGTGGAGGTGGTGAATCACGTGGACAAGCTATATCAGAACTCAACTTCCGTGTGGTCTCTGGTG  
GGCCTGGAGATTTGGAATAGTCAGGACAGGTTCCACGTACGCCCCGACCCAGTGTACACTGGAGAACCTCCTG  
ACCTGGCAGGCACGGCAACGGACACGGCGGCACCTGCATGACAACGTACAGCTCATCAGGGTGTGCACTTCACC  
GGGACTACCGTGGGGTTTGGCAGGGTGTCCGCCATGTGCTCCACAGCTCAGGGGCTGTGAACCAGGACCACAGC  
AAGAACCCCGTGGGCGTGGCCTGTACCATGGCCATGAGATGGGCCACAACCTGGGCATGGACCATGATGAGAAC  
GTCCAGGGTGCCTGCGTGCAGGAACGCTTCGAGGCCGGCCGCTGCATCATGGCGGGCAGCATTGGCTCCAGTTTC  
CCCAGGATGTTCACTGACTGCAGCCAGGCCTACCTGGAGAGCTTTTGGAGCGGGCCGAGTCCGTGTGCCCTGCC  
AACGCCCCTGACCTCAGCCACCTGGTGGGCGGCCCGTGTGTGGGAACCTGTTTGTGGAGCGTGGGGAGCAGTGC  
GACTGCGGGCCCCCGAGGACTGCCGGAACCGTGTGCAACTCTACCACCTGCCAGCTGGCTGAGGGGGCCAG  
TGTGCGCACGGTACCTGCTGCCAGGAGTGCAAGGTGAAGCCGGCTGGTGAAGTGTGCCGTCCCAAGAGGACATG  
TGTGACCTCGAGGAGTTCTGTGACGGCCGGCACCTGAGTGCCGGAAGACGCCTTCCAGGAGAACGGCACGCCC  
TGCTCCGGGGGCTACTGCTACAACGGGGCCTGTCCACACTGGCCAGCAGTGCCAGGCCTTCTGGGGGCCAGGT  
GGGCAGGCTGCCGAGGAGTCTCTCTCTATGACATCCTACCAGGCTGCAAGGCCAGCCGGTACAGGGCTGAC  
ATGTGTGGCGTTCTGCAGTGCAAGGTGGGCAGCAGCCCTGGGGCGTGCCATCTGCATCGTGGATGTGTGCCAC  
GCGCTCACCACAGAGGATGGCACTGCGTATGAACCACTGCCCCAGGGCAGCCGGTGTGGACCAGAGAAGGTTTGC  
TGGAAGGACGTTGCCAGGACTTACACGTTTACAGATCCAGCAACTGCTCTGCCAGTGCCACAACCATGGGGTG  
TGCAACCACAAGCAGGAGTGCCACTGCCACGCGGGCTGGGGCCCCGCCCCACTGCGCGAAGCTGCTGACTGAGGTG  
CACGCAGCGTCCGGGAGCCTCCCCGTCTTCGTGGTGGTGGTTCTGGTGCTCTGGCAGTTGTGCTGGTACCCTG  
GCAGGCATCATCGTCTACCGCAAAGCCCGAGCCGCATCCTGAGCAGGAACGTGGCTCCCAAGACCACAATGGGG  
CGCTCCAACCCCTGTTCCACCAGGCTGCCAGCCGCTGCCGGCCAAGGGCGGGGCTCCAGCCCCATCCAGGGGC  
CCCCAAGAGCTGGTCCCCACCACCCACCCGGGCCAGCCGCCCCGACACCCGGCCTCCTCGGTGGCTCTGAAGAGG  
CCGCCCCCTGCTCTCCGGTCACTGTGTCCAGCCACCTTCCAGTTCTGTCTACACCCGGCAGGCACCAAG  
CAGGTCTATCAAGCCAACGTTTCGACCCCCAGTGCCCCCAGTCAAACCCGGGGCTGGTGGCGCAACCTGGTCCA  
GCTGAGGGTGTGTTGGCCCAAAGGTTGCCCTGAAGCCCCCATCCAGAGGAAGCAAGGAGCCGAGCTCCACAG  
CACCCTAGGGGGGCACCTGCGCCTGTGTGGAATTTGGAGAAGTTGCGGCAGAGAAGCCATGCGTTCCAGCATT  
CACGGTCCAGCTAGTGCCGCTCAGCCCTAGACCCTGACTTTCAGGGCTCAGCTGCTGTTCTAACCTCAGGAATG  
ATCTACCTGAGAGGCTCCTGCTGTCCACGCCCTCAGCCAATTCCTTCTCCCCGCTTGGCCAGTGCTAGCCCCAG  
CTGTCTGCAGGCACCAAGGCTGGGATGAGCTGTGTGCTTGGGGTGCCTGTGTGTGTACGTGTCTCCAGGTGGCCG  
CTGGTCTCCCGCTGTGTTTCCAGGAGGCCATATACAGCCCCCTCCAGCCACACCTGCCCTGCTCTGGGGCCTGC  
TGAGCCGGCTGCCCTGGGCACCCGTTCCAGGCAGCACAGAGTGGGGCATCCCCAGAAAGACTCCATCCCAGGA  
CCAGGTTCCCCCTGCGTGCTCTTCGAGAGGGTGTGAGTGAGCAGACTGCACCCCAAGCTCCCGACTCCAGGTCCCC  
TGATCTTGGGGCCTGTTTCCCATGGGATTCAAGAGGGACAGCCCCAGCTTTGTGTGTGTTTAACTTAGGAATCG  
CCTTTATGGAAAGGGCTATGTGGGAGAGTCAGCTATCTGTCTGGTTTTCTTGAGACCTCAGATGTGTGTTTCAGC  
AGGGCTGAAAGCTTTTATTCTTTAATAATGAGAAATGTATATTTACTAATAAATTATTGACCGAGTTCTGTAGA  
TTCITGTTAGA



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**FIGURE 3104**

ATGGGCCAGAATGTTGCAGATTACATGTGCTACTTAATGCAAGAAGATGAAGATGCTTACAAGAAACAGTTCTCT  
CAATACATAAAGAACAGCGTAACTCCAGACATGAGAGATAAGAAAGCTCATGCTGCTCTACAAGAGAATCCAGGC  
TATGAGAAGAAGCCCAAGAAAGAAGTTCGAAAGAAGAGGCAAAACCGTCCCAAAATGGCCTTTGCTCAGAAGAAA  
GTTCCGGTAGCTCAAAGAAGGCAAGCTTCCTTGGAGCTCAGGAGCTGCTTGA

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**FIGURE 3105**

MGQNVADYMCYLMQEDEDAYKKQFSQYIKNSVTPDMRDKKAHAALQENPGYEKKPKKEVRKKRQNRPKMAFAQKK  
VRVAQRRQASLELRSC

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**FIGURE 3106**

TCTAATACCTATTGATCTGTTACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA  
ACACGCCCCTGATTCTACATTATGGTGAGTTCTATGATTATTTATTATATATTACAGTGTAATAATGGAAATA  
AAGTGCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG  
AACTTTCTCCAGTCAGCCTCTACAGACCAAGATCATGACTACAATGGCCTATTTAGGCCCATACCCTACGTCAC  
GGCAGCCTCCACAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT  
TAGACCCAGCTCCTGCCTCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGGTC  
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCTCCAGGCCCAGCCTCTGCCTCCCGT  
CAGCCTCTACAGTCCCAACGTCTGCCTCACAGCAGATTCTTCACGCCCAGCATCTACCTCACTTGGACCCCTCCAG  
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTTGGCAGCCTCTCCAGGCCCAGCTCCT  
CCTGCCTCCAGTGGCCTCTTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC  
TTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCAGCCTCTGC  
CTCACAGCGGACTCTC

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**FIGURE 3107**

CGGCCGCCCCCGCGACTGCGCCACGTCTGAGGCGGCTGTGGCCACGTCTGAGGCGGCTGTGGCCGCGTCGGTGTG  
CGCGTCGAGGAGCCGGGGCAGGGCACGATGCGGACTGGGCTCGGGCTCAGAGCCCGGGCGCTGTGGAAGAGATT  
CTAGACCGGGAGAACAAGCGAATGGCTGACAGCCTGGCCTCCAAAGTCACCAGGCTCAAATCGCTCGCCCTGGAC  
ATCGATAGGGATGCAGAGGATCAGAACCGGTACCTGGATGGCATGGACTCGGATTTACAAGCATGACCAGCCTG  
CTTACAGGGAGCGTGAAGCGCTTTCCACAATGGCAAGGTCCGGACAAGACAACCGGAAGCTTCTATGTGGCATG  
GCCGTGGGTCTAATTGTGGCCTTCTTCATCCTCTCCTACTTCTTGTCAGGGCAAGGACCTGAGCCAGTGGGAGC  
TGGTGTCTGTGGGTGCCAAGGGCAGCCAGCGGTCTCCCTGCCTGGTGTGTTTGGGCTCCACAGGACTTACCTACA  
AAATACTCCTTTGCAATGAT

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**FIGURE 3108**

MADWARAQSPGAVEEILDRENKRMADSLASKVTRLKSLALDIDRDAEDQNRYL DGMSDFTSMTSLLTGSVKRFS  
TMARSGQDNRKLLCGMAVGLIVAFFILSYFLSRART

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**FIGURE 3109**

CGGGGCCGGCGAACTGCGGCCCGGAACGGCTGAGGAAGGGCCCGTCCCGCCTTCCCCGGCGCGCCATGGAGCCCC  
GGGCGGTTGCAGAAGCCGTGGAGACGGGTGAGGAGGATGTGATTATGGAAGCTCTGCGGTATACAACCAGGAGC  
ACTCCAGAGCTTCACGTTTGTATGATGCCAACAGGAGGACCGGAAGAGACTGGCGGAGCTGCTGGTCTCCGTCC  
TGGAACAGGGCTTGCCACCCTCCACCGTGTCTGCTGAGAGTGTCCGAATCCTGTCCCGGGACCGCAACT  
GCCTGGACCCGTTACAGCCGCCAGAGCCTGCAGGCACTAGCCTGCTATGCTGACATCTCTGTCTCTGAGGGGT  
CCGTCCAGAGTCCGCAGACATGGATGTTGTACTGGAGTCCCTCAAGTGCCTGTGCAACCTCGTGTCTCAGCAGCC  
CTGTGGCACAGATGCTGGCAGCAGAGGCCCGCCTAGTGGTGAAGCTCACAGAGCGTGTGGGGCTGTACCGTGAGA  
GGAGCTTCCCCACGATGTCCAGTCTTTGACTTGGGCTCCTCTTCCTGCTAACGGCACTCCGCACCGATGTGC  
GCCAGCAGCTGTTTCAGGAGCTGAAAGGAGTGCCTGCTAACTGACACACTGGAGCTGACGCTGGGGGTGACTC  
CTGAAGGGAACCCCCACCCACGCTCCTTCTTCCCAAGAGACTGAGCGGGCCATGGAGATCCTCAAAGTGCTCT  
TCAACATCACCTGGACTCCATCAAGGGGGAGGTGGACGAGGAAGACGCTGCCCTTTACCGACACCTGGGGACCC  
TTCTCCGGCACTGTGTGATGATCGCTACTGCTGGAGACCGCACAGAGGAGTTCCACGGCCACGCAGTGAACCTCC  
TGGGGAACCTGCCCCCTCAAGTGTCTGGATGTTCTCTCACCTGGAGCCACATGGAGACTCCACGGAGTTTCATGG  
GAGTGAATATGGATGTGATTCGTGCCCTCCTCATCTTCTTAGAGAAGCGTTTGACAAGACACACAGGCTGAAGG  
AGAGTGTAGTCTCCGTGCTGAGCGTGTGACTGAATGTGCCCGGATGCACCGCCCAGCCAGGAAGTTCTGAAGG  
CCCAGGTGCTGCCCCCTCTGCGGGATGTGAGGACACGGCCTGAGGTGGGGAGATGCTGCGGAACAAGCTGTGCC  
GCCTCATGACACACCTGGACACAGATGTGAAGAGGGTGGCTGCCGAGTTCTTGTTTGTCTGTGCTCTGAGAGTG  
TGCCCCGATTATCAAGTACACAGGCTATGGGAATGCTGCTGGCCTTCTGGCTGCCAGGGGCTCATGGCAGGAG  
GCCGGCCCGAGGGCCAGTACTCAGAGGATGAGGACACAGACAGATGAGTACAAGGAAGCCAAAGCCAGCATAA  
ACCCTGTGACCGGGAGGGTGGAGGAGAAGCCGCCTAACCTATGGAGGGCATGACAGAGGAGCAGAAGGAGCACG  
AGGCCATGAAGCTGGTGACCATGTTTGACAAGCTCTCCAGGAACAGAGTCATCCAGCCAATGGGGATGAGTCCCC  
GGGGTCATCTTACGTCCCTGCAGGATGCCATGTGCGAGACTATGGAGCAGCAGCTCTCCTCGGACCCTGACTCGG  
ACCCTGACTGAGGAGGATGGCAGCTCTTCTGCTCCCCATCAGGACTGGTGTGCTTCCAGAGACTTCTTGGGGTTG  
CAACCTCGGGAAGCCACATCCCACTGGATCCACACCCGCCCCACTTCTCCATCTTAGAAACCCCTTCTCTTGAC  
TCCCGTTCTGTTTCATGATTTGCCCTCTGGTCCAGTTTCTCATCTCTGGACTGCAACGGTCTTCTTGTGCTAGAACT  
CAGGCTCAGCCTCGAATTCCACAGACGAAGTACTTCTTTTGTCTGCGCCAAGAGGAATGTGTTTCAGAAAGCTGCT  
GCCTGAGGGCAGGGCCTACCTGGGCACACAGAAGAGCATATGGGAGGGCAGGGGTTTGGGTGTGGGTGCACACAA  
AGCAAGCACCATCTGGGATTGGCACACTGGCAGAGCCAGTGTGTTGGGGTATGTGCTGCACTTCCAGGGAGAAA  
ACCTGTCAGAACTTTCCATACGAGTATATCAGAACACACCCTTCCAAGGTATGTATGCTCTGTTGTTCTCTGTCCT  
GTCTTCACTGAGCGCAGGGCTGGAGGECTCTTAGACATTCTCCTTGGTCTCGTTAGCTGCCCACTGTAGTATC  
CACAGTGGCCGAGTTCTCGCTGGTTTTGGCAATTAAACCTCCTTCTACTGGTTTAGACTACACTTACAACAAGG  
AAAATGCCCTCGTGTGACCATAGATTGAGATTTATACCACATACCACACATAGCCACAGAAACATCATCTTGAA  
ATAAAGAAGAGTTTTTGGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 3110**

MEPRAVAEAVETGEEDVIMEALRSYNQEHQSFTFDDAQQEDRKRLAELLVSVLEQGLPPSHRVIWLQSVRILSR  
DRNCLDPFTSRQSLQALACYADISVSEGSVPESADMVVLSESLKCLCNLVLSSPVAQMLAAEARLVVKLTERVGL  
YRERSFPHDVQFFDLRLLFLLLTALRTDVRQQLFQELKGVRLTDTLELTGVTPEGNPPPTLLPSQETERAMEIL  
KVLFNITLDSIKGEVDEEDAALYRHLGTLRHCVMIATAGDRTEEFHGHAVNLLGNLPLKCLDVLLTLEPHGDST  
EFMGVNMDVIRALLIFLEKRLHKTHRLKESVAPVLSVLTECARMHRPARKFLKAQVLPPLRDVTRPEVGEMLRN  
KLVRLMTHLDTDVKRVAAEFLFVLCSESVPRFIKYTGYGNAAGLLAARGLMAGGRPEGQYSEDEDTDDEYKEAK  
ASINPVTGRVEEKPPNPMEGMTEEQKEHEAMKLVTMFDKLSRNRVIQPMGMSPRGHLTSLQDAMCETMEQQLSSD  
PDSDDP

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**FIGURE 3111**

TTTCCGGCAGCCATCCCCGCGGTGCTGACATCCCGGTTGTTCTTCTGTGCCGGGGGTCTTCCTGCTGTCATGAAG  
GACGTACCGGGCTTCTACAGCAGAGCCAGAGCTCCGGGCCCCGGGCAGCCCGCTGTGTGGCACCCTGCTGGAGGAG  
CTCTACACGAAGAAGTTGTGGCATCAGCTGACACTTCAGGTGCTTGATTTTGTGCAGGATCCGTGCTTTGCCCAA  
GGAGATGGTCTCATTAAAGCTTTATGAAAACTTTATCAGTGAATTTGAACACAGGGTGAATCCTCTGTCCCTCGTG  
GAAATCATTCTTCACGTAGTTAGACAGATGACTGATCCTAATGTGGCTCTTACTTTTCTGGAAAAGACTCGTGAG  
AAGGTGAAAAGTAGTGATGAGGCAGTGATCCTGTGTAAAACAGCAATTGGAGCTCTAAAATTAAACATCGGGGAC  
CTACAGGTTACAAAGGAAACAATTGAAGATGTTGAAGAAATGCTCAACAACCTTCTGGTGTGACATCGGTTTAC  
AGTCGTTTTCTATGATCTCTCCAGTAAATACTATCAAACAATCGGAAACCACGCGTCTACTACAAAGATGCTCTG  
CGGTTTTTGGGCTGTGTTGACATCAAGGATCTACCAGTGTCTGAGCAGCAGGAGAGAGCCTTCACGCTGGGGCTA  
GCAGGACTTCTCGGCGAGGGAGTTTTTAACTTTGGAGAACTCCTCATGCACCCTGTGCTGGAGTCCCTGAGGAAT  
ACTGACCGGCAGTGGCTGATTGACACCCTCTATGCCTTCAACAGTGGCAACGTAGAGCGGTTCCAGACTCTGAAG  
ACTGCCTGGGGCCAGCAGCCTGATTTAGCAGCTAATGAAGCCCAGCTTCTGAGGAAAATTGAGTTGTTGTGCCTC  
ATGGAGATGACTTTACACGACCTGCCAATCACAGACAACCTACTTTGAAGAAATTGCCAAAAGTGCTAAAATC  
ACAGTGAATGAGGTGGAGCTTCTGGTGATGAAGGCCCTTTCGGTGGGGCTGGTGAAGGCAGTATAGACGAGGTG  
GACAAACGAGTCCACATGACCTGGGTGCAGCCCCGAGTGTGGATTGCAACAGATCAAGGGAATGAAGGACCGC  
CTGGAGTTCTGGTGCACGGATGTGAAGAGCATGGAGATGCTGGTGGAGCACCAGGCCCATGACATCCTCACCTAG

GGCCCCCTGGTTCCCCGTCGTGCTCCTTTGACTCACCTGAGAGAGGCATTTGCAGCCAATGAAGCTGGCTGCTC  
AGACGGTCGACATTGAATTTGGGTGGGGGTTGGGATCCTGTCTGAAGTACAGACTGTCCCTGCTCTAAAAACAGG  
ACTGTCCCTGATGGGAGCCAGGCCACAGGGAGGAGGCTTCTTTGTGGGTCTCTCCTGCAGAGGGTGGGGGTCTCA  
GGGTCTTAGGTGATACGGGAGAGAAAGAACGTGCCAGGCAGGAGGCCCTGAAGTCTGTGTACTCCGAGGTGGA  
TCTCCATCCCCATCCACCTGTACGGACATCTTTCCGTTGTGGTTTGAGAATGTTCTATAATAAACCCCTCTGC  
TTTGT



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**FIGURE 3112**

MKDVPGFQQSSSGPGQPAVWHRLLEELYTKKLWHQLTLQVLDVQDPCFAQGDGLIKLYENFISEFEHRVNPLS  
LVEIILHVVRQMTDPNVALTFLEKTREKVKSSDEAVILCKTAIGALKLNIGDLQVTKETIEDVEEMLNNLPGVTS  
VHSRFYDLSSKYYQTIGNHASYYKDALRFLGCVDIKDLPVSEQQERAFTLGLAGLLGEGVFNFGEMLMHPVLES  
RNTDRQWLIDTLYAFNSGNVERFQTLKTAWGQQPDLAANEAQLLRKIQLLCLMEMTFTRPANHRQLTFEEIAKSA  
KITVNEVELLMKALSVGLVKGSIDEVDKRVHMTWVQPRVLDLQQIKGMKDRLEFWCTDVKSMEMLVEHQAHDI  
T

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**FIGURE 3113**

CAACACAGGGGCAGTCTCCAGGACCTCCACACCATTAAACAAGATGAGCCTTGTGCTCCCTTGGGCTCTAGAGAGG  
AAGCCCCCTCTGAGCCCTCAGCCCCTCTTTCCCTCCCTCTCCTAAAGTAATTTGATCCTCAGGAATTTGTTCTGCCC  
TCATCTGGCCCTGGCCAGCTCTGCATTTGACAAATGCCAGGAAGAGGAAACTGTTGAGAAAACGGAACACTACTGGG  
GAAAGGGAGGGCTCACTGAGAACCATCCCGGTAACCCGACCGCCGCTGGTCACCATGAACACATGTGCAAACC  
TTCTCTCCTGTCAACAGCGGCCAGCCTCCCAACTACGAGATGCTCAAGGAGGAGCAGGAAGTGGCTATGCTGGGG  
GGGCCCCACAACCCTGCTCCCCGACGTCCACCGTGATCCACATCCGCAGCGAGACCTCCGTGCCTGACCATGTC  
GTCTGGTCCCTGTTCAACACCCTCTTCATGAACACCTGCTGCCTGGGCTTCATAGCATTGCGCTACTCCGTGAAG  
TCTAGGGACAGGAAGATGGTTGGCGACGTGACCGGGGCCAGGCCATGCCTCCACGCCAAGTGCCTGAACATC  
TGGGCCCTGATTTTGGGCATCTTCATGACCATTCTGCTCGTCATCATCCAGTGTGGTTCGTCCAGGCCAGCGA  
TAGATCAGGAGGCATCATTGAGGCCAGGAGCTCTGCCCGTGACCTGTATCCACGTACTCTATCTTCCATTCTC  
GCCCTGCCCCCAGAGGCCAGGAGCTCTGCCCTTGACCTGTATTCCACTTACTCCACCTTCCATTCTCGCCCTGT  
CCCCACAGCCGAGTCCTGCATCAGCCCTTTATCCTCACACGCTTTTCTACAATGGCATTCAATAAAGTGTATATG  
TTTCT

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**FIGURE 3114**

MNHIVQTFSPVNSGQPPNYEMLKEEQEVAMLGPHNPAPPTSTVIHIRSETSVDPDHVVWSLFNTLFMNTCCLGFI  
AFAYSVKSRDRKMVGDTVGAQAYASTAKCLNIWALILGIFMTILLVIIPVLVVQAQR

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**FIGURE 3115**

TTTAACACCCATAGTAGGCCTAAAAGCAGCCACCAATTAAGAAAGCCACAGCACGTACACCCACTCCAGGGATCT  
GCCAGCACCCCTGTGGGGCCCAGACTACAGGCTGATGSCGGAGGCTTCGAGTGACCCGGGTGCTGAGGAGCGGGAA  
GAGTTGCTGGGGCCCAGTCTCAGTGGAGCGTGGAGGACGAGGAGGAGGCCGTCCACGAGCAATGCCAGCATGAG  
AGAGACAGGCAGCTTCAGGCCCAGGACGAGGAGGGAGGCGGCCATGTCCCGAGCGGCCGAAGCAGGAGATGCTC  
CTCAGCCTGAAGCCCTCGGAGGCCCTGAACCTGGATGAGGACGAGGGCTTTGGCGACTGGTCCCAGAGGCCAGAG  
CAGCGGCAGCAGCAGGAGGGGCGCAGGGCGCCTTGGACAGCGGAGAGCCCCCAGTGCAGGAGTCTTGAGGGG  
GAGCAAGAGGACAGGCCCGGCCATGCCTACGAAAAGGAGGACAGTGATGAAGTCCACCTGGAGGAGTTGAGT  
CTGAGCAAGGAGGGGCCAGGCCAGAGGACACTGTCCAGGACAACCTGGGGGCGCAGGGGCTGAGGAGGAACAG  
GAGGAGCACCAGAAATGTCAGCAGCCCAGGACACCCAGCCCCCTTGGTCTTGGAGGGGACCATCGAACAGAGCTCG  
CCTCCCCCTGAGCCCTACCACCAAACCTCATCGACAGGACCGAGTCCCTAAACCGCTCCATAGAGAAGAGTAACAGT  
GTGAAGAAATCCCAGCCAGACTTGCCCATCTCCAAGATTGATCAGTGGCTGGAACAATACACCCAGGCCATCGAG  
ACCGCTGGCCGGACCCCCAAGCTAGCCCGCCAGGCCTCCATAGAGCTGCCAGCATGGCTGTGGCCAGTACCAAG  
AGTCGGTGGGAGACGGGTGAGGTACAGGCTCAGTCTGCGGCCAAGACTCCGTCTGCAAGGATATTGTGGCTGGA  
GACATGAGCAAGAAAAGCCTCTGGGAGCAGAAGGGAGGCTCCAAGACCTCATCAACAATTAAGAGCACCCCATCT  
GGGAAGAGGTATAAGTTTGTGGCCACCGGGCATGGGAAGTATGAGAAGGTGCTTGTGGAAGGGGGCCCGGCTCCC  
TAGGCGTCCCATCTCGCTTCCTGGGTCTGCAGGTCCAGCCGGCTGGCACCTCCATGTACCCAGGGGAGATTCCA  
GCCAGACACCCGCCCCCGGCCCTGGCTAAGAAGTTGCTTCCTGTTGCCAGCATGACCTACCCCTCGCCTCTTTGA  
TGCCATCCGCTGCCACCTCCTTTTGCTCCTGGACCCTTTAGCCTCTCTGCCCTTCCACTCTCTGACCACCGCCCC  
CGCCCTCCCCACCCAGCTCCGCTTCTTGTTACTTGGGGGAGGAAAGAACTCCTGATCATTGGCCAAAGGGACTT  
ACCCCTGGAGAGGCCAAGTGCCTTCTAGGAAGTTAGGAGGTTGAGGCACAGCCTGTGCAGAGAGGGTGGGTACC  
CCCCCAGATCCAAGGGGAACTGCAGGTCAAGGGCTGATAACGGCCATGCAGGATGCTTGATGCTGCGTCCCCCG  
CTGCTTGCCGCCCCCACCCGCCATTTTGTATAATAAGCTCCCTGTGTATTCTC

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**FIGURE 3116**

MAEASSDPGAEEEREELLGPTAQWSVEDEEEAVHEQCQHERDRQLQAQDEEGGGHVPERPKQEMLLSLKPSEAPEL  
DEDEGFGDWSQRPEQRQQHEGAQGALDSGEPPQCRSPEGEQEDRPGLHAYEKEDSDEVHLEELSLSKEGPGPEDI  
VQDNLGAAGAEQQEHHQKQQPRTPSPLVLEGTIEQSSPPLSPTTKLIDRTESLNRSEKSNVKKSQPDLPIS  
KIDQWLEQYTQAIETAGRTPKLARQASIELPSMAVASTKSRWETGEVQAQSAAKTPSCKDIVAGDMSKKSLWEQK  
GGSKTSSTIKSTPSGKRYKFVATGHGKYEKVLVEGGPAP

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**FIGURE 3117**

TTGCTGTAACAGTGTTTATTGATGATGAGTCCAGGGCTCCTGCTGAAGCCCTGGTGGGGAGGGGCACAGAGCGAG  
ATGGGGCGTAATGGAATGCTTGAAGGCTGCTCCGTGATGTGGTTCGGAGCTTCCAGACTAGGCGAGGGCAGGGTG  
AGGCCTCGGGCACACAGCCGGCGCCAGTCAACCGGCCAGATGGAGGGCGGCCGGGCCCTGCACAGGCACTTGC  
CAAGGTGGCTCACACTCACGCACACTCGTACTGAGACTCAAGGCCGTCTCCACAACCTCAACAGTGCAAATGAC  
TTAGTGCAAATTAAATTGAGAAGGGACGGGGGAAACAGAGTCGTGGAGGCTTTGAATCTCTCAGAAAAAGGAAA  
GACAGGAAAGCTCAGAAACAAAGAGACAGAAGGATGAAAAAGAAGAAGAGGGAGGTGGTGGGGACGGCGTCATCC  
CGCTGGAGGAGCTCAGCTCTGGGATGATGTGGTGGCTGGTGGTCAACCGTCCGCCGCAGGGGGTGGCCATGAAGA  
TGGAGTCGCCGTTGCCGGGTGGGTGCTGCGGGCGCTGCTGTTCCGATGGTGTCTTTGATGTTGGGCTGATGAGGT  
CTGGTTCTCTAGCTTCCAGAGCCGATTCTGAGTCAGGTAGTGCAGTGGTTGTAAAGTGCAGCATATTCAATTC  
CAAGCTAGAGGGTTTTGTGTCCGGATTCAAAGGCCAGGCTTGAGCTGGGTAGCACCATTTCTTTTCATGTTGTGG  
GTTCTGGGAGCCCAGAGGGCAGCCATAGTGTGCCGACTCCGTGGAGGAAGTAAAGAAACAGACCCGCTTCTTGCC  
GCAGCCCCACCAGCCTAAGGTGTTAGGAAGGCCGACGCGCCTCCTCTGTCTCGCCGTCACACGGGACCATGT  
CATGTCTGTGTTGTCACGTCCACCGGACCTGGCGCTTGGCCTTCGGCAGCTGGTGGGCACGTCCACCCCAGCTG  
GAGACCTGGCCTCGTCTCCAGCCGAACGCTGAGGCACCGATCCCGGCTCCGTGCGCGCCCGCAGGGCCCGCCTT  
GGCCACGGGCTCTGGAGGCCAGTGCTTCCGCTCGCCGCGCCGCTGCGCTCCTCACCCCTGCCTGCACCATCCTCC  
CTCCTGAGAGCTCATTCACTCCGCCCCGCGCCCTCGCCTAGTCTGGTCTCGCCCCATGCCCTTGACTCCCTGG  
ATGCTGTACTGTCTGCCAAGCCAGCCCCAGGGGCTGAGCGGTGAGGGCATAACAGCGTCACCAAGTCCACTGTGGG  
CCCTCTCCGCACCAGACCCTGGGCCGAGTGCTTGGTGGGAC

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**FIGURE 3118**

MMSPGLLLLKPWWGGAQSEMGRNGMLEGCSVMSVGASRLGEGVRPRAHSRRPVTRPWRRAAGPCTGTCQGGSHSR  
TLVLRLLKAVSTTPITSANDLVQIKFRDGGNRVVEALNLSEKRKDRKAQKQDRRMKKKKKREVVGTAASSRWRSSAL  
G